ADDENDUM 03
SOFTBALL UPGRADES

Date: Monday, December 8, 2025

Project #: 0323.25.002

Project Name: Softball Upgrades
Vicksburg High School – 3701 Drummond St., Vicksburg, MS 39180
Warren Central High School – 1000 MS-27, Vicksburg, MS 39180

Owner: Vicksburg Warren School District
1500 Mission 66
Vicksburg, MS 39180

To: All Prospective Bidders

From: Tyler Abell, EI

Bidders are hereby informed that the Project Manual and Drawings are modified as follows:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents with a submittal signed and stamped date of October 31, 2025. It is the General Contractor's responsibility for providing proper acknowledgement and receipt of this Addendum in the Bid Forms/Document.

Attachments to this Addendum: As described herein.

Total Number of Pages in this Addendum: 29 Pages

PART A: GENERAL ADDENDUM, BIDDING, AND/OR PROJECT NOTES:

A1. None this addendum.

PART B: CONTRACTOR QUESTIONS WITH RESPONSES (Responses are in RED)

Note: If you do not see your question answered, then we are still researching or working on a solution.

B1. Can you clarify what concessions equipment that we are to provide on this project? It is not very clear between architectural and plumbing and there is not a spec section for kitchen equipment as well. Particularly the two refrigerators and the ice maker. See revised drawings with equipment schedules included. The ice maker and the refrigerators will be contractor furnished, contractor installed.

B2. On Sheet E003 Schedule Note #2 under both of the Sports Lighting Schedules references Specification Section 26 56 68 which does not exist, the specs seem to end at 26 56 00. This same spec section is referenced on Sheets E101 for VHS Softball new construction and E103 for WCHS Softball new construction as Note #1 on both drawings. Per the statement of this Note #1 this section seems to be quite detailed and important in our takeoff requirements. Can you please see if you can get it to me/us? Spec section included in this addendum.

B3. Please clarify the Soffit materials. The Reflected ceiling plan is correct, the soffit is cementitious bead board. Details have been corrected in the attached revised drawings.

B4. Please clarify the exterior finish for the downspout and gutters. Match the metal roof color. Exterior Finish materials have been added to the exterior elevations in the attached revised drawings.

B5. Can you Provide specifications for the metal liner panel on A310/ 1 &2. There is no interior metal liner panel. The metal soffit has been corrected to the bead board cementitious soffit.

B6. Page E611 it shows 7 speakers at various locations. The site layout only show speaker at A1 & A2 bleacher locations needing only 2 speakers. Am I missing something? The other speakers are on top of the press box. See sheets E142 and E143 specific note 6. Do note the sound system applies to both VHS and WCHS Softball Fields.

PART C: DRAWING CLARIFICATIONS, REVISIONS, AND ADDITIONS:

C1. Architectural: Replace these sheets in their entirety.
1. A101
2. A201
3. A310
4. A701

C2. Plumbing: Replace these sheets in their entirety.
1. P101
2. P601

C3. Electrical: Replace these sheets in their entirety.
1. E002
2. E004
3. E005
4. E006
5. E101
6. E102
7. E103
8. E111
9. E112
10. E142
11. E201
12. E601
13. E602
14. E603
15. E611

PART D: SPECIFICATION CLARIFICATIONS, REVISIONS, AND ADDITIONS

D1. 265668 – Athletic Field Lighting

PART E: APPROVED PRODUCT/VENDOR EQUALS

E1. Digital Rack Mixer from Johson Controls is not approved. Please use laptop as shown on sheet E611. We can discuss potential changes once in construction.

E2. Musco Lighting has submitted for the field lighting and is approved to bid the project.

END OF ADDENDUM 03

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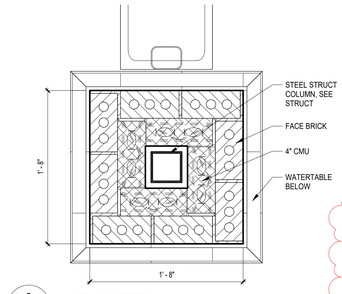


3 A101 COLUMN DETAIL
1 1/2" = 1'-0"

DIM. FLOOR PLAN NOTES

1. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM OUTSIDE FACE OF STEEL TO OUTSIDE FACE OF STEEL OR OUTSIDE FACE OF MASONRY TO OUTSIDE FACE OF MASONRY.

ENLARGED RR NOTES

1. ALL DIMENSIONS ARE TAKEN FROM FINISHED SURFACE OF WALL TO CENTER OF FIXTURE UNLESS NOTED OTHERWISE.
2. SEE STRUCTURAL FOR LOCATIONS OF SLAB RECESSES.
3. ADA TOILET PARTITION STALL DOORS MUST HAVE CLEAR OPENING OF 32" MINIMUM.
4. SEE SHEET G201 FOR GENERAL ADA CLEARANCES AND REQUIREMENTS.

EQUIPMENT SCHEDULE

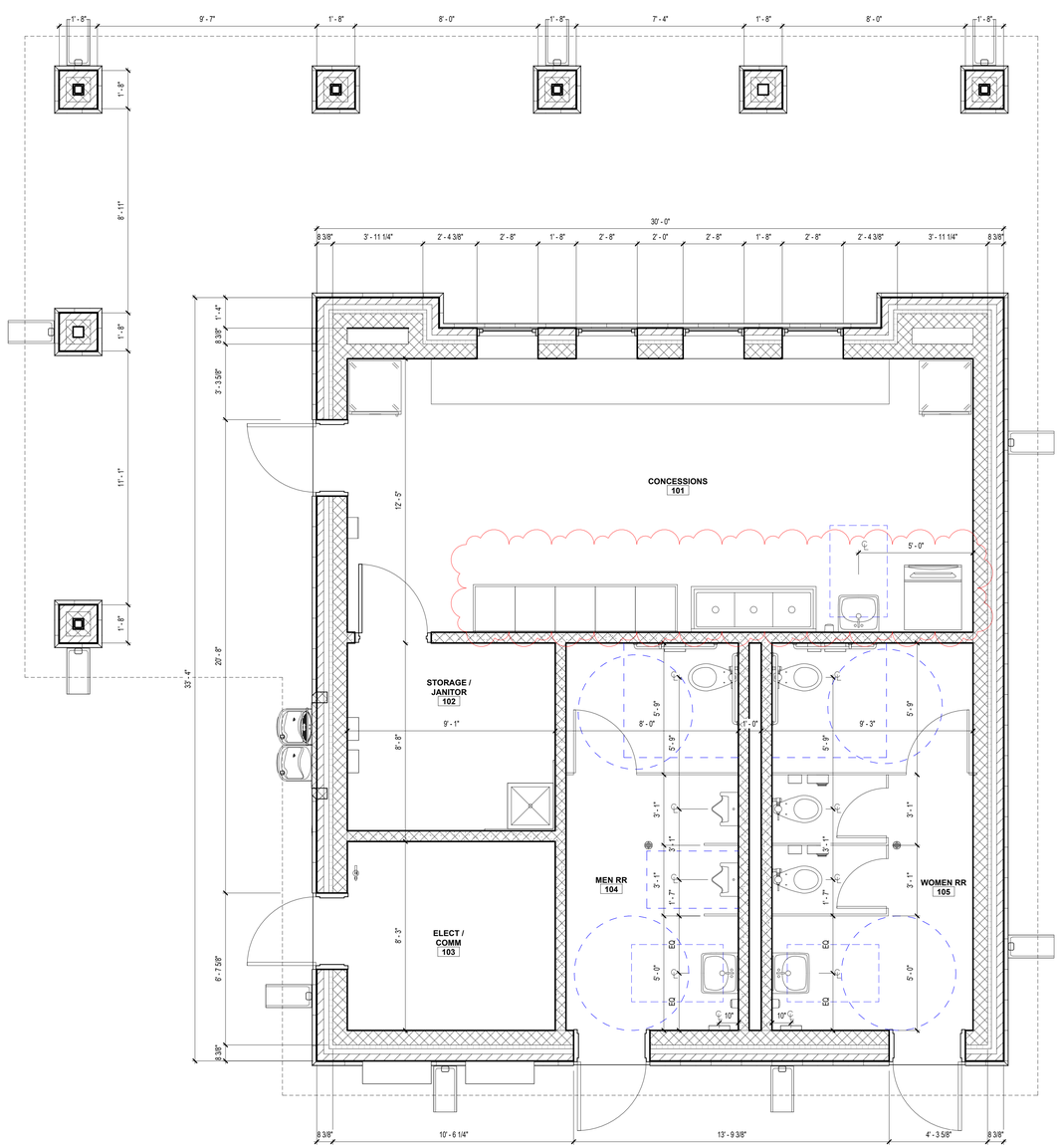
SYMBOL	EQUIPMENT
1	MOTAK MGD-1DR-21-X 21 5/8" ONE SECTION GLASS DOOR MERCHANDISER - (1) RIGHT HINGE DOORS, BLACK, 115V
2	MOTAK MGD-1DR-21-X 21 5/8" ONE SECTION GLASS DOOR MERCHANDISER - (1) LEFT HINGE DOORS, BLACK, 115V

RESTROOM/JANITOR ACCESSORY SCHEDULE

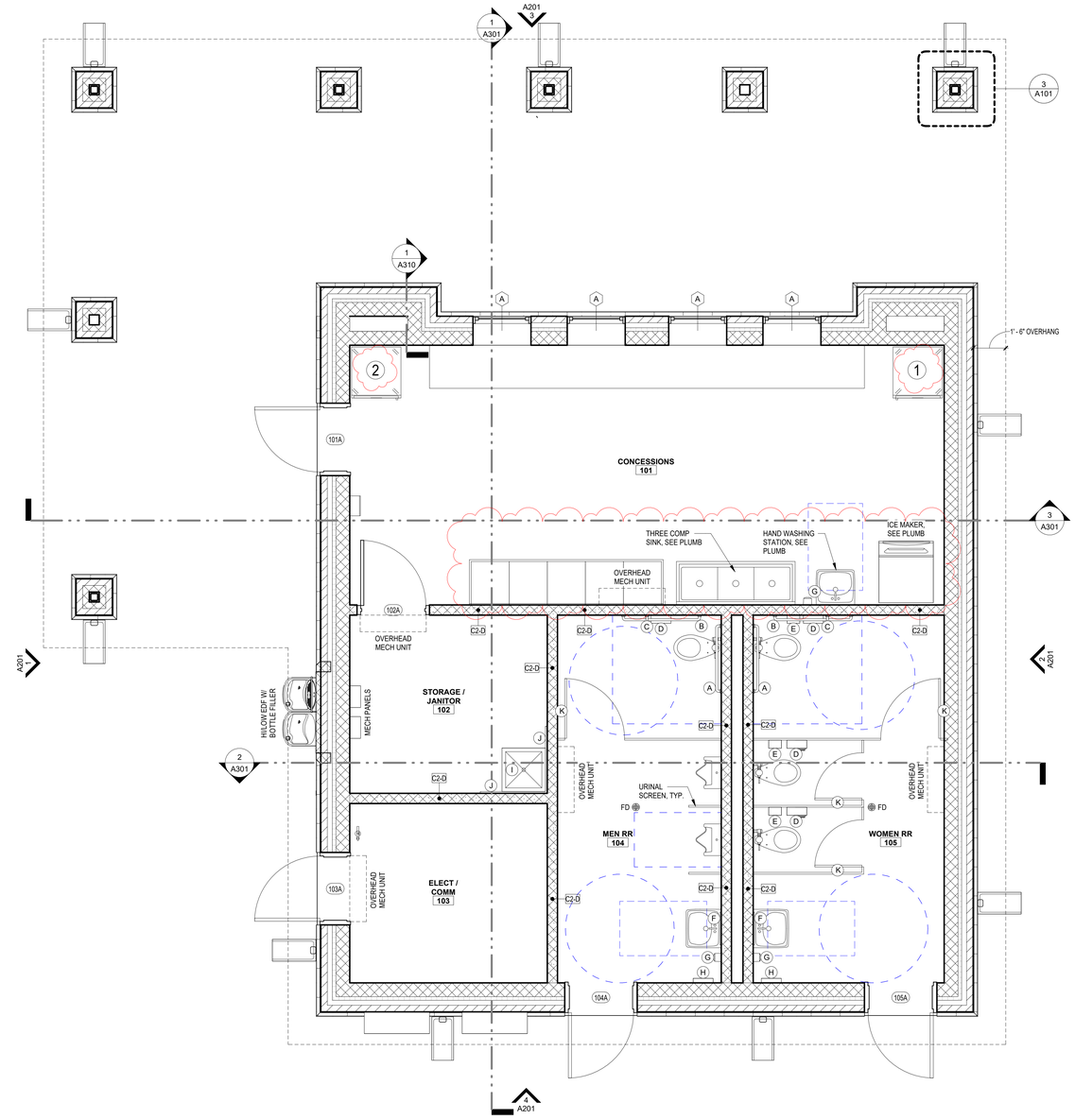
SYMBOL	ACCESSORY	MOUNTING HEIGHT	NOTES
A	36" GRAB BAR (REAR OF WC)	33" - 36" AFF	1
B	42" GRAB BAR (SIDE OF WC)	33" - 36" AFF	1
C	18" VERTICAL GRAB BAR	39" - 41" AFF TO CL OF ATTACHMENT	1, 5
D	TOILET TISSUE DISPENSER	18" MIN AFF MAX TO BOTTOM OF TISSUE	1
E	SANITARY NAPKIN DISPOSAL		
F	MIRROR 18" X 36"	40" AFF MAX TO REFLECTIVE SURFACE	2
G	SOAP DISPENSER	44"-48" MAX TO OPERABLE PART	1
H	PAPER TOWEL DISPENSER/GARBAGE RECEPTACLE	44"-48" MAX TO TOWEL DISPENSER	1
I	34" MOP HOLDER W/ SHELF	---	1
J	FIBERGLASS REINFORCED PANEL (FRP)	---	3
K	ROBE HOOK	42" AFF ON RR SIDE OF DOOR	1

ACCESSORY NOTES

1. FIELD VERIFY MOUNTING HEIGHTS WITH ARCHITECT BEFORE INSTALLATION. ALL MOUNTING HEIGHTS SHALL COMPLY WITH ADA REQUIREMENTS & MANUFACTURER RECOMMENDATIONS.
2. ATTACH MIRROR PER MANUFACTURER RECOMMENDATIONS. CENTER MIRROR WITH LAVATORY OR LAVATORY UNIT BELOW.
3. PROVIDE FRP UP TO 8'-0" TALL AND EXTEND PAST SIDES OF MOP SINK MINIMUM 12 INCHES. PROVIDE TRIM PIECES FOR EXPOSED EDGES OF FRP.
4. NIC- NOT IN CONTRACT; OWNER FURNISHED/OWNER INSTALLED
5. MOUNTING HEIGHT DIMENSION IS TO THE CENTER LINE OF THE BOTTOM ATTACHMENT.



1 A101 DIMENSIONED FLOOR PLAN
3/8" = 1'-0"



2 A101 FLOOR PLAN
3/8" = 1'-0"

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REGISTERED ARCHITECT — VALDES HEMENWAY — 5616 — STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

CONCESSIONS FLOOR PLAN

NO.	DATE	REVISION, SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.05.25	ADDENDUM 03

A101

VERIFY SCALES
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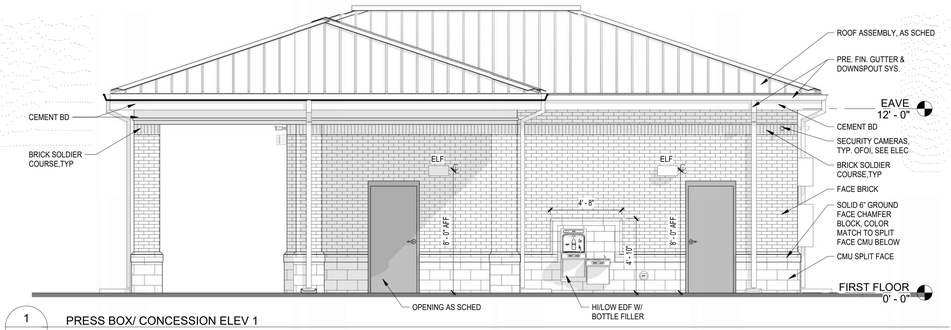
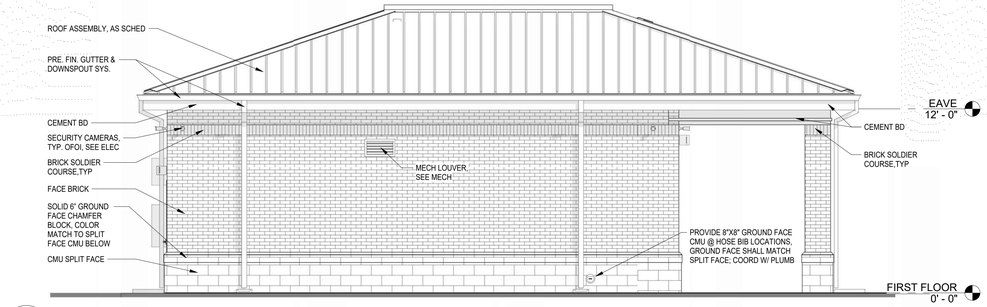


1 A201 PRESS BOX/ CONCESSION ELEV 1

1/4" = 1'-0"



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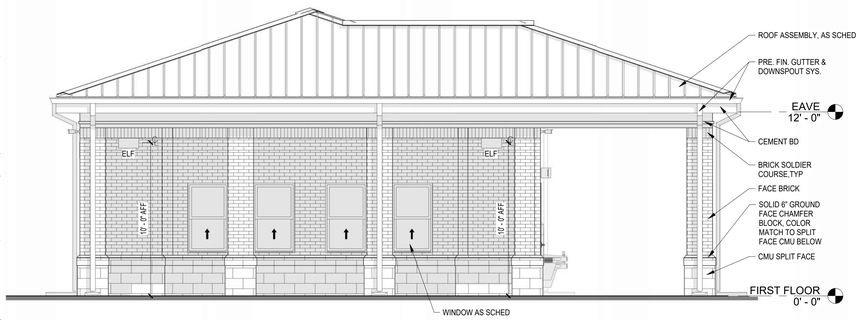
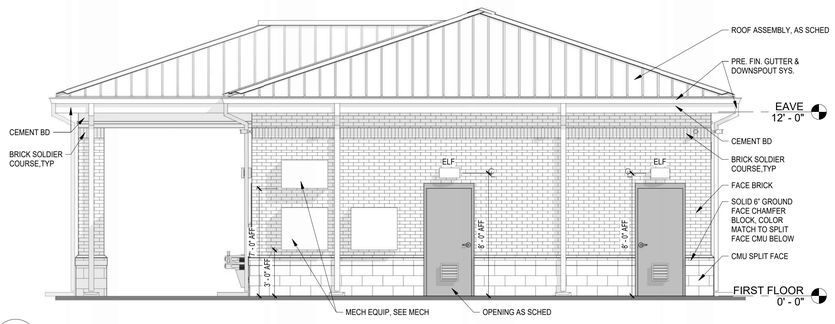


3 A201 PRESS BOX/ CONCESSION ELEV 3

1/4" = 1'-0"



4 A201 PRESS BOX/ CONCESSION ELEV 4

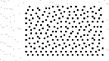
1/4" = 1'-0"

EXTERIOR ELEV GENERAL NOTES

1. ROOF, DOWNSPOUTS, STOREFRONT, SOFFIT, & GUTTERS: MBCI- MIDNIGHT BLACK.
2. CEMENT BOARD TRIM & DOOR PAINT: SW 7521 PAVILION BEIGE (PAINT TO MATCH SPLIT FACE COLOR).
3. COUTERTOPS: BLACK PEARL GRANITE.
4. SPLIT FACE & SOLID UNIT: BLOCK USA- HERTITAGE BEIGE.
5. FACE BRICK: WATSONTOWN BRICK- MEDIUM GREY WIRECUT.
6. MORTAR: HOLCIM- 200N.
7. STANDARD PRE FIN AWNINGS WITH HANGER RODS: AWNING AND ROSE MIDNIGHT BLACK.
8. STRUCTURAL GRID/ COLUMN LINES NOT SHOW FOR CLARITY. SEE FLOOR PLANS AND BUILDING SECTION FOR STRUCTURAL GRID/ COLUMN LINES.

EXTERIOR MATERIALS

WATSONTOWN BRICK: MEDIUM GREY WIRECUT



HOLCIM-200N

MBCI- MIDNIGHT BLACK

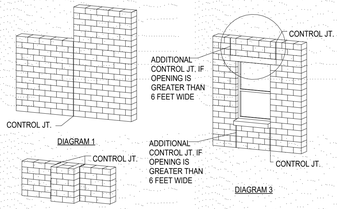
SW 7521 PAVILION BEIGE (PAINT TO MATCH SPLIT FACE COLOR)

BLOCK USA- HERTITAGE BEIGE

BLACK PEARL GRANITE

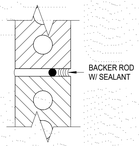
CONTROL JOINT LOCATION - GENERAL NOTES:

1. FOR FURTHER INFORMATION, CONSULT THE CONCRETE MASONRY HANDBOOK AND THE GYPSUM CONSTRUCTION HANDBOOK.
2. MAXIMUM SPACING BETWEEN CONTROL JOINTS IN REINFORCED MASONRY CONSTRUCTION IS 25 FEET. THE DISTANCE OF A JOINT FROM A CORNER IS 25 FEET. AVOID PLACING CONTROL JOINTS BETWEEN TWO ADJACENT WINDOWS; CRACKS MAY SEEK A PATH TO A WINDOW.
3. CONTROL JOINTS ARE TO OCCUR AT ALL ABRUPT CHANGES IN WALL HEIGHT (SEE DIAGRAM 1.)
4. PROVIDE CONTROL JOINTS AT ALL CHANGES IN WALL THICKNESS, SUCH AS THOSE AT PIPE OR DUCT CHASES AND THOSE ADJACENT TO COLUMNS OR PILASTERS (SEE DIAGRAM 2.)
5. PROVIDE CONTROL JOINTS AT ALL LARGE OPENINGS IN WALLS. OPENINGS LESS THAN 6 FEET WIDE OR TO RECEIVE A CONTROL JOINT ALONG ONLY ONE SIDE; OPENINGS LARGER THAN 6FEET MUST HAVE JOINTS AT BOTH SIDES. OFFSET THE CONTROL JOINT (MIN 8") AS REQ'D TO ALLOW LINTEL ADEQUATE BEARING AREA (SEE DIAGRAM 3.) TO PERMIT MOVEMENT. THE BEARING OF AT LEAST ONE END OF THE LINTEL SHOULD BE BUILT TO SLIDE. PLASTIC OR BITUMINOUS SHEET SHOULD BE USED FOR A SLIP PLATE.



CONTROL AND EXPANSION JOINT NOTES:

1. TOOL JOINTS TO ENSURE FULL CONTACT WITH AND ADHESION TO SUBSTRATE.
2. ENSURE THAT SUBSTRATE IS CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT MATL. PROVIDE PRIMER TO IMPROVE ADHESION OF SEALANT TO SUBSTRATE AS REQ'D.
3. SEALANT DEPTH:
   A. 1/4" MIN FOR 1/4" JOINTS
   B. EQUAL TO JOINT WIDTH FOR JOINTS UP TO 1/2".
   C. HALF OF JOINT WIDTH FOR JOINTS 1/2" OR WIDER, BUT NOT MORE THAN 1/2"
4. JOINT FILLER (BACKER ROD) CONTROLS DEPTH OF SEALANT CONTACT W/ ADJOINING PARS. IT SHOULD BE COMPRESSIBLE AND NOT ADHERE TO SEALANT.



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REGISTERED ARCHITECT VANESSA HEMENWAY 9416 12/15/25 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
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3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

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CHECKED BY: VJH

EXTERIOR ELEVATIONS

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.05.25	ISSUED FOR ADDENDUM 03

A201

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1"
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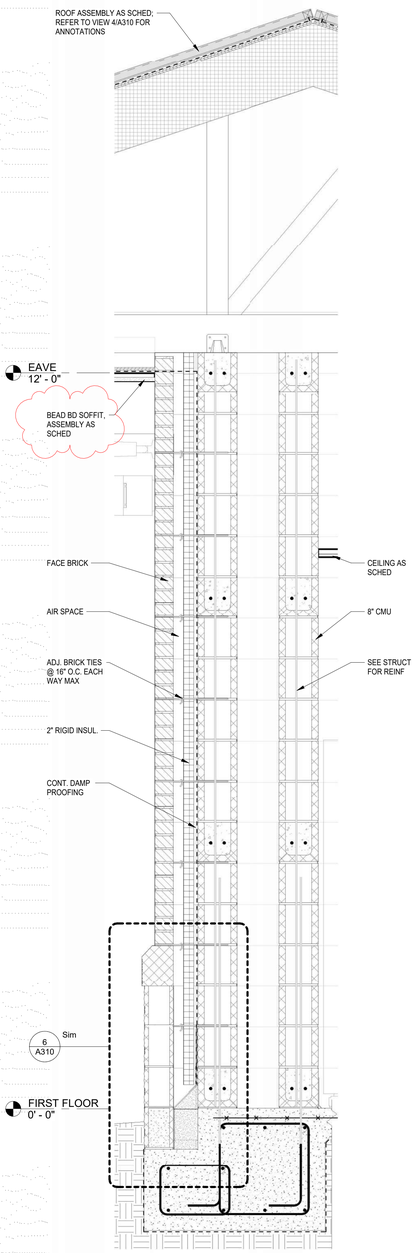
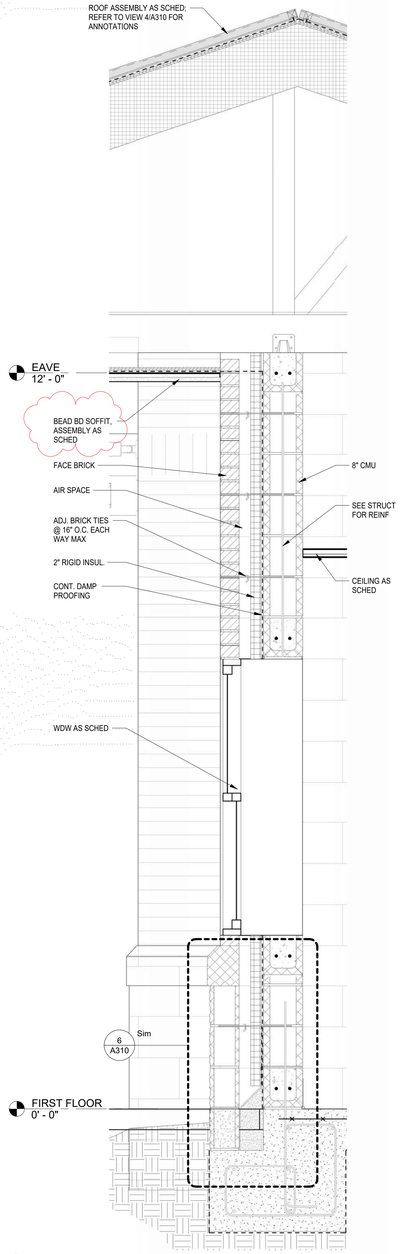
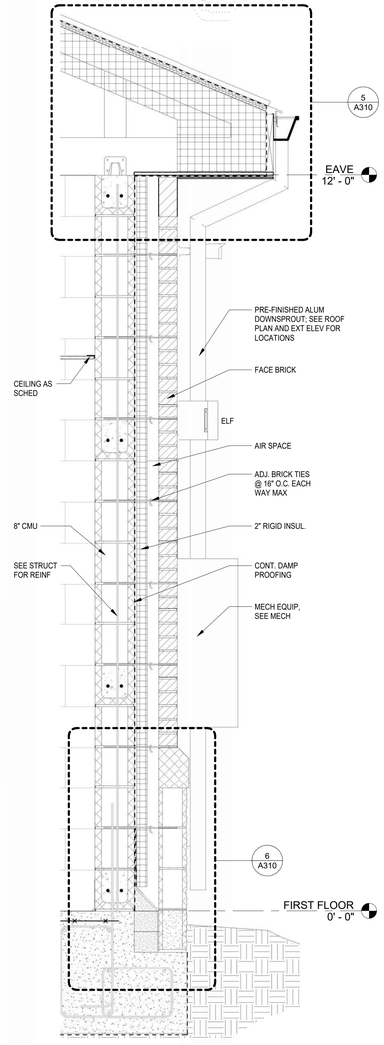


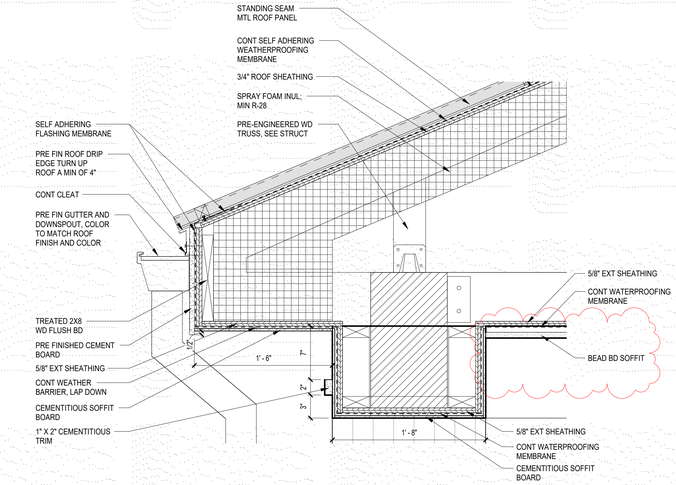
1 A310 WALL SECTION 1
1" = 1'-0"



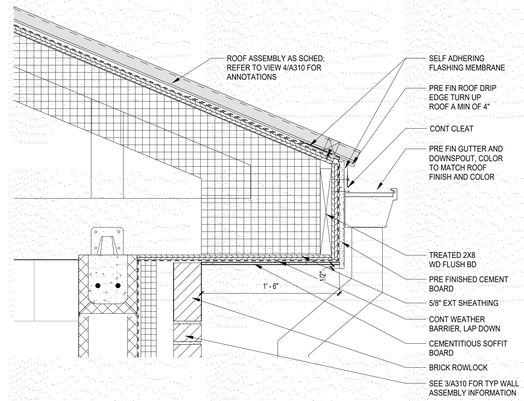
2 A310 WALL SECTION 2
1" = 1'-0"



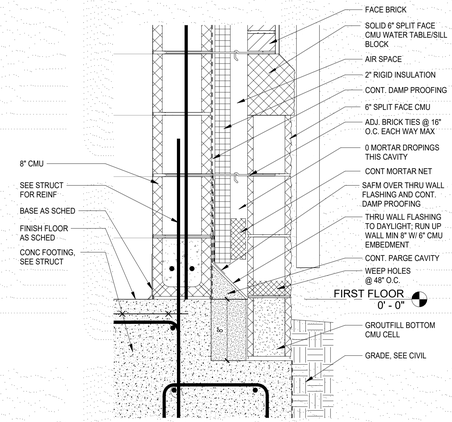
3 A310 WALL SECTION 3
1" = 1'-0"



4 A310 WALL SECTION 1
1 1/2" = 1'-0"



5 A310 TOP PLATE DETAIL 2
1 1/2" = 1'-0"



6 A310 FOOTING DETAIL
1 1/2" = 1'-0"

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WALL SECTIONS & SECTION DETAILS

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REV 1	12.05.25	ADDENDUM 03

A310

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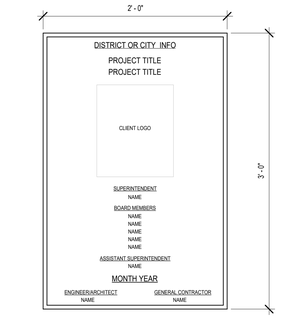


GRAPHICS SHOWN ARE FOR PRELIMINARY PRESENTATION PURPOSES ONLY. OWNER APPROVAL IS REQUIRED ON FINAL PLAQUE SUBMITTAL. TYPICAL MOUNTING HEIGHT AT 7'-0" TO THE TOP UON.

QUANTITY OF 3: VWSD SOFTBALL, VWSD BASEBALL, & WCHS SOFTBALL

1 / A701 PLAQUE
1 1/2" = 1'-0"

ROOM FINISH SCHEDULE

RM NO.	ROOM NAME	FLOOR FINISH: FINISH FLOOR	FLOOR FINISH: BASE	WALL FINISHES: NORTH	WALL FINISHES: EAST	WALL FINISHES: SOUTH	WALL FINISHES: WEST	CEILING TYPE	REMARKS
101	CONCESSIONS	CSC1	TB1	EP1	EP1	EP1	EP1	ACT1	E
102	STORAGE / JANITOR	CSC1	TB1	PT1	PT1	PT1	PT1	GYP1 (PT2)	E
103	ELECT / COMM	CSC1	---	PT1	PT1	PT1	PT1	GYP1 (PT2)	E
104	MEN RR	CSC1	TB1	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	GYP2 (PT2)	A, B, C, D, E
105	WOMEN RR	CSC1	TB1	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	EP1 & EP2/3	GYP2 (PT2)	A, B, C, D, E

ROOM SIGNAGE SCHEDULE

DOOR NO.	DOOR SINGLE/PAIR	SIGNAGE REQUIRED	SIGANGE TEXT	ADA SYMBOL	GLAZING MOUNT	DOOR NO.
101A	S	Yes	CONCESSIONS	No	No	101A
102A	S	Yes	STORAGE	No	No	102A
103A	S	Yes	ELECT. / COMM. ROOM	No	No	103A
104A	S	Yes	RESTROOM (MALE/ADA SYMBOLS)	Yes	No	104A
105A	S	Yes	RESTROOM (FEMALE/ADA SYMBOLS)	Yes	No	105A

FINISH KEY SCHEDULE

ITEM:	MATERAL:	PRODUCT:
FLOOR:		
CSC1	COLOR SEALED CONCRETE	SHERWIN WILLIAMS: ARMORSEAL REXTHANE, COLOR: STEEL GRAY
BASE:		
TB1	TILE BASE	DATILE VOL. 1.0: THUNDER
PAINT:		
PT1	FIELD COLOR	SHERWIN WILLIAMS: SW7015 REPOSE GRAY
PT2	GYP CEILING FINISH, TYP	SHERWIN WILLIAMS: SW7004 SNOWBOUND
PT3	@ EXT GHM FRAME & GHM DOOR	SHERWIN WILLIAMS: SW6258 TRICORN BLACK
PT4	@ INT HM FRAME	SHERWIN WILLIAMS: SW6258 TRICORN BLACK
EP1	EPOXY PAINT: FIELD COLOR	SHERWIN WILLIAMS: SW7015 REPOSE GRAY
EP2	EPOXY PAINT: VWSD ACCENT PAINT	SHERWIN WILLIAMS: SW6927 GREENBELT
EP3	EPOXY PAINT: WCHS ACCENT PAINT	SHERWIN WILLIAMS: SW7588 SHOW STOPPER
CEILING:		
ACT1	24X24 ACOUSTIC CEILING TILE	ARMSTRONG: 673 KITCHEN ZONE
GYP1	GYPSUM BOARD	PER SPECIFICATIONS
GYP2	MOISTURE RES GYPSUM BOARD	PER SPECIFICATIONS
MISC:		
PLAM1	PLASTIC LAMINATE: UPPER & LOWER CABINETS, TYP	WILSONART STEEL MESH
GT1	GRANITE TOP	BLACK PEARL GRANITE
---	VWSD ROOM SIGNAGE	BACKGROUND: GREEN- LETTERING: WHITE
---	WCHS ROOM SIGNAGE	BACKGROUND: RED- LETTERING: WHITE
---	VWSD TOILET PARTITIONS	SCRATON PARTITION; BLACK
---	WCHS TOILET PARTITIONS	SCRATON PARTITION; BLUEBERRY

NOTE: GC SHALL VERIFY FINAL FINISHES SELECTIONS WITH OWNER/ARCHITECT PRIOR TO PURCHASE. GC SHALL CONTACT ARCHITECT IF A DISCREPENCY BETWEEN THE FINISH SELECTIONS IN THIS TABLE ARE IN CONFLICT WHITH THAT OF THE SPECIFICATIONS.

GENERAL FINISH NOTES

1. PROVIDE SOLID SURFACE SILL AT ALL WINDOWS
2. PROVIDE MOISTURE MOLD RESISTANT GYPSUM BOARD AT ALL RESTROOM AND LOCKER ROOM LOCATIONS.
3. SEE FINISH FLOOR PLAN FOR FLOOR PATTERN OF FLOORING MATERIALS.
4. PROVIDE FRP PANEL BEHIND MOP SINK.

GENERAL FINISH REMARKS

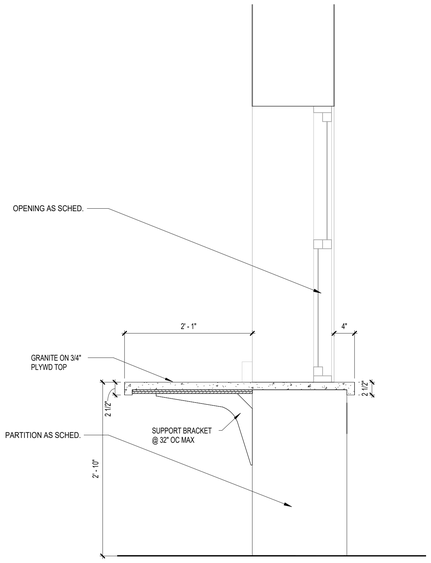
A. INCLUDE NON-SKID TEXTURE ADDITITVE TO COLOR SEALED CONCRETE FLOORING.

B. SEE RESTROOM ACCENT WALL TYPICAL 7/A701.

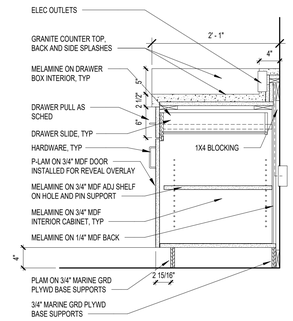
C. ACCENT PAINT LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. ACCENT COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- EP2 (SW GREENBELT)
   b. VWSD BASEBALL- EP2 (SW GREENBELT)
   c. WCHS SOFTBALL- EP3 (SW SHOWSTOPPER)

D. PARTITIONS LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. PARTITION COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- SCRATION PARTITION; BLACK
   b. VWSD BASEBALL- SCRATION PARTITION; BLACK
   c. WCHS SOFTBALL- SCRATION PARTITION; BLUEBERRY

E. SIGNAGE LOCATIONS AND EXTENTS ARE CONSISTENT ACROSS ALL SCHOOLS. SIGNAGE COLOR VARIES BY SCHOOL AS FOLLOWS:
   a. VWSD SOFTBALL- BACKGROUND: GREEN- LETTERING: WHITE
   b. VWSD BASEBALL- BACKGROUND: GREEN- LETTERING: WHITE
   c. WCHS SOFTBALL- BACKGROUND: RED- LETTERING: WHITE

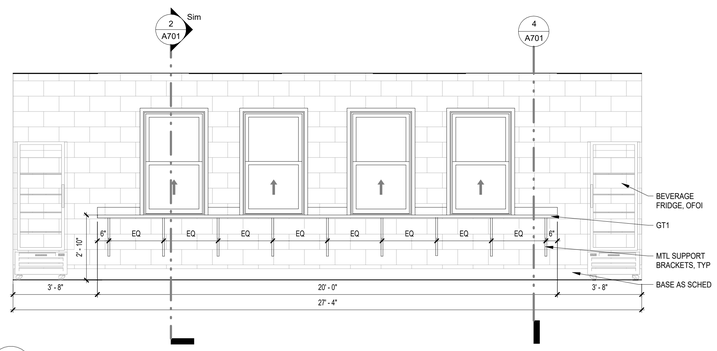


2 / A701 CONCESSION STAND COUNTER SECTION
1" = 1'-0"

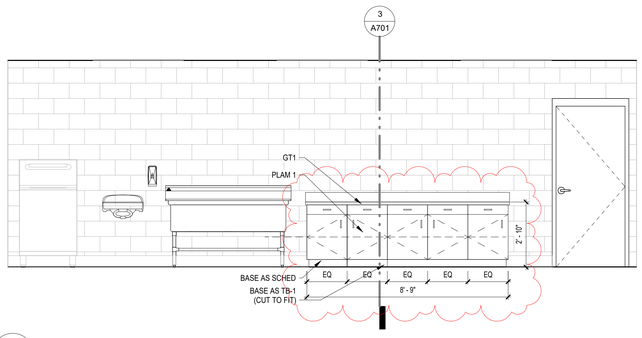


3 / A701 MILLWORK SECTION
1" = 1'-0"

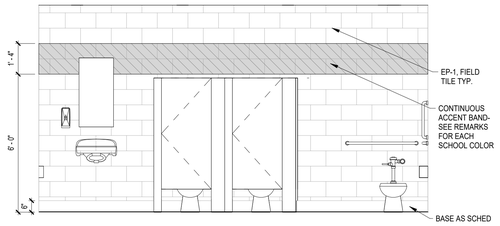
4 / A701 MILLWORK SECTION
1" = 1'-0"



5 / A701 MILLWORK ELEVATION- CONCESSION STAND 1
3/8" = 1'-0"



6 / A701 MILLWORK ELEVATION- CONCESSION STAND 2
3/8" = 1'-0"



7 / A701 ELEVATION RESTROOM- ACCENT WALL PAINT BAND TYPICAL
3/8" = 1'-0"

12/4/2025 5:19:02 PM

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REGISTERED ARCHITECT — MARK A. HEMENWAY — 5616 — STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS INDICATED
PROJECT NO: 0323.25.002
DRAWN BY: CG
CHECKED BY: VJH

ROOM FINISH SCHEDULE, MILLWORK SECTIONS, & ELEVATIONS

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.05.25	ADDENDUM 03

A701

VERIFY SCALES
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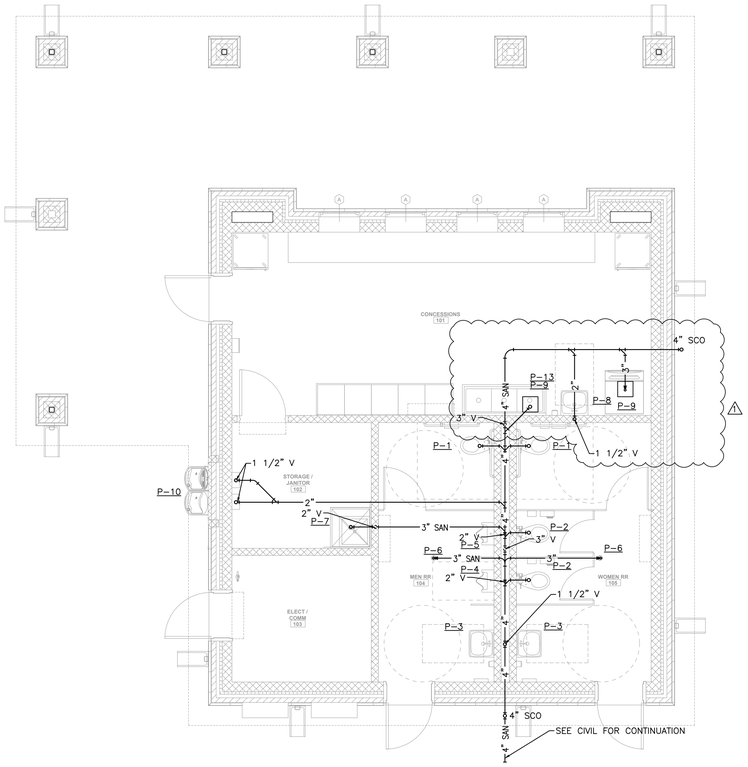
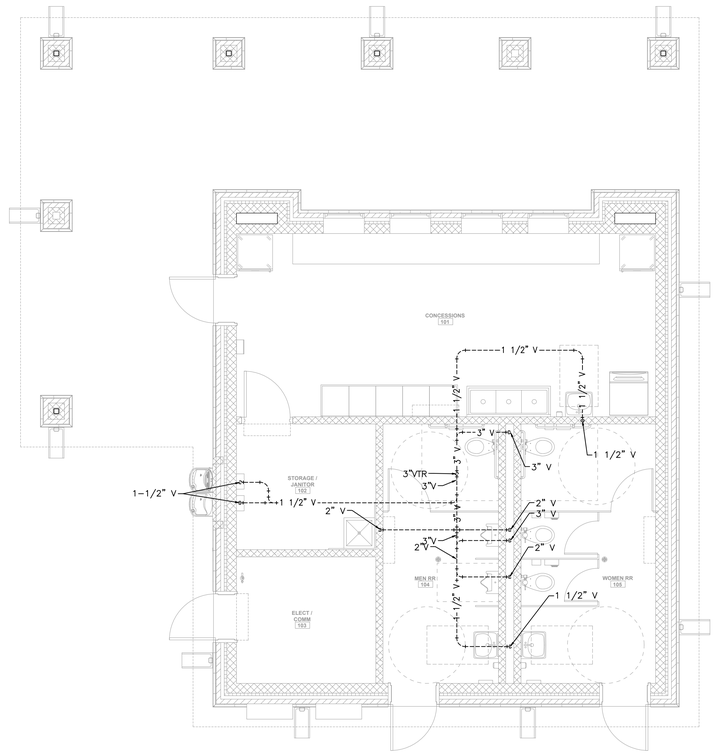
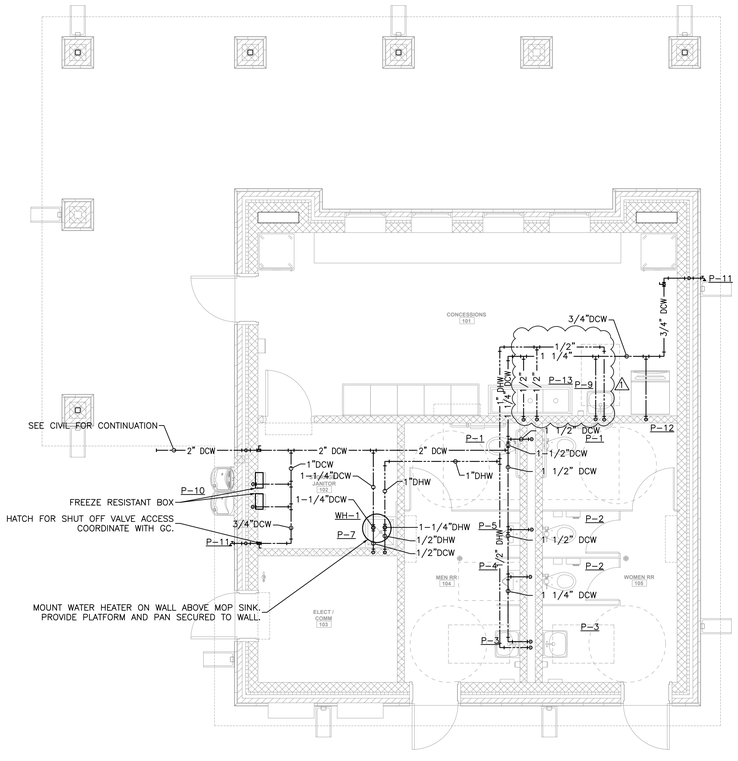


1 SANITARY SEWER PLAN
SCALE: 1/4"=1'-0"



2 SANITARY VENT PLAN
SCALE: 1/4"=1'-0"



3 DOMESTIC WATER PLAN
SCALE: 1/4"=1'-0"

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JIMCAH VAN DUNK
REGISTERED PROFESSIONAL ENGINEER
16922
STATE OF MISSISSIPPI
12.08.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

PLUMBING PLANS

SCALE: 1/4"=1'0"
PROJECT NO: 0323.25.002
DRAWN BY: TJA
CHECKED BY: JMV

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 01

P101

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PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MAKE	MODEL	CONNECTIONS				NOTES
				CW	HW	TW	D	
P-1	ADA FLOOR MOUNT WATER CLOSET-FV	ZURN	Z5665-BWL1	1"	N/A	N/A	3"	1,2,3,4
P-2	FLOOR MOUNT WATER CLOSET-FV	ZURN	Z5665-BWL1	1"	N/A	N/A	3"	2,3,5
P-3	ADA WALL MOUNT LAVATORY	ZURN	Z5361-PED	1/2"	1/2"	3/8"	1-1/4"	1,6,7,8,9,13,14,15
P-4	ADA URINAL	ZURN	Z5755-U	3/4"	N/A	N/A	2"	1,10,15
P-5	URINAL	ZURN	Z5755-U	3/4"	N/A	N/A	2"	5,10,15
P-6	3" FLOOR DRAIN	ZURN	ZN415B-VP	N/A	N/A	N/A	3"	11,16
P-7	MOP SINK	ACORN	TSH-24-BDS-SSC-KF-KFC-KH36-KMH-KWG	1/2"	1/2"	N/A	3"	12
P-8	ADA HAND SINK	BK RESOURCES	BKHS-ADA-D-P-G	1/2"	1/2"	N/A	1-1/2"	1,15,26
P-9	FLOOR SINK	ZURN	Z1900-1	N/A	N/A	N/A	3"	16
P-10	ADA DRINKING FOUNTAIN/BOTTLE FILLER	ELKAY	EDFP217FPK	(2)1/2"	N/A	N/A	(2)1-1/2"	1,15,17,21,22
P-11	WALL HYDRANT	WOODFORD	B65	3/4"	N/A	N/A	N/A	20
P-12	ICE MACHINE	MANITOWOC	NXT - IP0320C	1/2"	N/A	N/A	(2) 3/4" & 3/8"	23
P-13	3 COMPARTMENT SINK	EMPURA	ESD311818	1/2"	1/2"	N/A	(3) 1-1/2"	24,25,27
4" SCO	4" SIDEWALK CLEAN OUT	ZURN	ZN1400-BP-VP	N/A	N/A	N/A	4"	11,19

1 MOUNT WITH ADA CLEARANCES
2 WITH ZURN Z5955SS-EL SEAT
3 WITH ZURN ZEMS6000AV-WS1-FM12-MOB-HW6 HARDWIRED SENSOR FLUSH VALVE
4 OVERRIDE BUTTON SHALL BE MOUNTED TOWARD OPEN SIDE OF STALL
5 MOUNT WITH STANDARD CLEARANCES
6 WITH ZURN Z6913-XL-TMV-1-HW6-MJ-F HARDWIRED SENSOR FAUCET
7 WITH PVC P-TRAP
8 WITH BALL VALVE STOPS AND FLEXIBLE SUPPLIES
9 WITH ASSE 1070 COMPLIANT MIXING VALVE
10 WITH ZURN ZEMS6003AV-IS-MOB-ULF-HW6 HARDWIRED SENSOR FLUSH VALVE
11 WITH VANDAL RESISTANT SCREWS
12 WITH DOME STRAINER, TILING FLANGES, WALL GUARDS, STAINLESS CAP, MOP HANGER, FAUCET, & HOSE
13 SINGLE HOLE DRILLING
14 WITH ACYRLIC SHROUD
15 WITH HEAVY DUTY WALL CARRIER
16 WITH ASSE 1072 COMPLIANT TRAP SEAL PROTECTOR
17 WITH CANE APRON
18 LESS GRATE
19 WITH BRASS PLUG
20 COORDINATE WALL THICKNESS AND CLAMP COLLAR WITH ARCHITECTURE
21 VANDAL RESISTANT
22 WITH TWO ELKAY LKFRB1 FREEZE RESISTANT BOXES
23 WITH ICE BIN, FILTERS, AND SCOOP HOLDER
24 WITH T&S 5PR-8W14-C WALL MOUNTED FAUCET, SPRAY VALVE AND 14-1/8 ADD ON FAUCET
25 WITH STAINLESS STEEL CONSTRUCTION
26 WITH ADA DRAIN AND SUPPLY COVERS
27 LESS DRAINBOARDS

WATER HEATER SCHEDULE

TAG	MAKE	MODEL	GAL	100°F RECOVERY	V/PH	KW	FLA	NOTES
WH-1	RHEEM	EGSP30	30	24	208/1	6	28.8	1,2,3

1 WITH T&P RELIEF VALVE
2 WITH DRAIN VALVE
3 WITH 3 YEAR TANK WARRANTY

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Biloxi, Mississippi 39530
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JUNIAH VAN DUNK — REGISTERED PROFESSIONAL ENGINEER — 18922 — STATE OF MISSISSIPPI — 12.08.2025

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: 1/4"=1'0"
PROJECT NO: 0323.25.002
DRAWN BY: TJA
CHECKED BY: JMV

PLUMBING SCHEDULES

NO.	DATE	REVISION / SUBMITTAL
REV.0	10.31.25	ISSUED FOR CONSTRUCTION
REV.1	12.08.25	ADDENDUM 03

P601

VERIFY SCALES
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ABBREVIATIONS

A

A	AMPERE(S)
AC	ALTERNATING CURRENT
ACS	ACCESS CONTROL SYSTEM
A/C	AIR CONDITIONING
AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
ALUM	ALUMINUM
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAGE
AHU	AIR HANDLING UNIT

C

C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CLASS
COND	CONDUCTOR(S)
CT	COUNTER TOP
CU	COPPER
COMM	COMMUNICATION
CWP	CHILLED WATER PUMP

D

DC	DIRECT CURRENT
DET.	DETECTOR

E

E.C.	ELECTRICAL CONTRACTOR
EEB	ELECTRICAL EQUIPMENT BUILDING
EF	EXHAUST FAN
EL.	ELEVATION
EM	EMERGENCY
ESD	EMERGENCY SHUTDOWN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING

F

FC	FOOT CANDLE
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FL	FLUORESCENT
FREQ.	FREQUENCY
FT.	FOOT; FEET

G

G	GROUND
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTER
GND	GROUND

H

HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ

J

JB	JUNCTION BOX

K

KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERES
KW	KILOWATT

L

LBS.	POUNDS
LEV	LEVEL
LTG.	LIGHTING
LV	LOW VOLTAGE

M

MCB	MAIN CIRCUIT BREAKER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MH	MOUNTING HEIGHT

N

N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NF	NONFUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	UN SWITCHED NIGHT LIGHT
NTS	NOT TO SCALE

O

OC	ON CENTER
OL	OVERLOAD CONTACT

P

ø	PHASE
PNL	PANEL
PR	PAIR
PE	PHOTO ELECTRIC
PRI	PRIMARY
PIR	PASSIVE INFRARED
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER

R

REC	RECEPTACLE
REQ'D.	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RT	RAINTIGHT

S

SEC	SECONDARY
SMK	SMOKE
SPC	SINGLE POINT CONNECTION
SR	SUNRISE
SS	SUNSET
STD	STANDARD
SUPVR	SUPERVISORY
SWBD	SWITCHBOARD

T

TYP	TYPICAL

U

UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES

V

V	VOLTS
VAC	VOLTAGE, ALTERNATING CURRENT
VDC	VOLTAGE, DIRECT CURRENT

W

W	WATTS, WIRE, WIDTH
WP	WEATHERPROOF

X

XFMR	TRANSFORMER

FEEDER SCHEDULE (3)

TYPE THHN/THWN INSUL. COPPER CONDUCTOR AMPACITY BASED ON (75° TEMP. RATING) IN RIGID METAL CONDUIT
DRY INTERIOR LOCATIONS: EMT WITH CAST COMPRESSION FITTINGS
WET EXTERIOR LOCATIONS: RGS WITH CAST FITTINGS
UNDERGROUND INSTALLATIONS: SCHEDULE 80 PVC
BASED ON 40% FILL CAPACITIES, MINIMUM CONDUIT SIZE = 3/4"

FEEDER DESIGNATION	3PH+G PHASE + GND. CONDUCTORS AND CONDUIT SIZE	FEEDER DESIGNATION	3PH+N+G PHASE + NEUTRAL + GND. CONDUCTORS AND CONDUIT SIZE	FEEDER DESIGNATION	2 WIRE + GND. OR 1 WIRE + NEUTRAL + GND. CONDUCTORS AND CONDUIT SIZE
20	3#12+#12 GND., 3/4"C	20N	4#12+#12 GND., 3/4"C	20S	2#12+#12 GND., 3/4"C
30	3#10+#10 GND., 3/4"C	30N	4#10+#10 GND., 3/4"C	30S	2#10+#10 GND., 3/4"C
50	3#8+#10 GND., 1"C	50N	4#8+#10 GND., 1"C	50S	2#8+#10 GND., 1"C
65	3#6+#8 GND., 1"C	65N	4#6+#8 GND., 1 1/4"C	65S	2#6+#8 GND., 1"C
85	3#4+#8 GND., 1 1/4"C	85N	4#4+#8 GND., 1 1/4"C	85S	2#4+#8 GND., 1 1/4"C
100	3#3+#8 GND., 1 1/4"C	100N	4#3+#8 GND., 1 1/2"C	100S	2#3+#8 GND., 1 1/4"C
115	3#2+#6 GND., 1 1/2"C	115N	4#2+#6 GND., 1 1/2"C	115S	2#2+#6 GND., 1 1/2"C
130	3#1+#6 GND., 1 1/2"C	130N	4#1+#6 GND., 2"C	130S	2#1+#6 GND., 1 1/2"C
150	3#1/0+#6 GND., 2"C	150N	4#1/0+#6 GND., 2"C	150S	2#1/0+#6 GND., 2"C
175	3#2/0+#6 GND., 2"C	175N	4#2/0+#6 GND., 2 1/2"C	175S	2#2/0+#6 GND., 2"C
200	3#3/0+#6 GND., 2"C	200N	4#3/0+#6 GND., 2 1/2"C	200S	2#3/0+#6 GND., 2"C
230	3#4/0+#4 GND., 2 1/2"C	230N	4#4/0+#4 GND., 3"C	230S	2#4/0+#4 GND., 2 1/2"C
255	3#250+#4 GND., 2 1/2"C	255N	4#250+#4 GND., 3"C	255S	2#250+#4 GND., 2 1/2"C
285	3#300+#4 GND., 3"C	285N	4#300+#4 GND., 3"C	285S	2#300+#4 GND., 3"C
310	3#350+#3 GND., 3"C	310N	4#350+#3 GND., 4"C	310S	2#350+#3 GND., 3"C
335	3#400+#3 GND., 3"C	335N	4#400+#3 GND., 4"C	335S	2#400+#3 GND., 4"C
380	3#500+#3 GND., 4"C	380N	4#500+#3 GND., 4"C	380S	2#500+#3 GND., 4"C
400	2 SETS(3#3/0+#3 GND., 2"C)	400N	2 SETS(4#3/0+#3 GND., 2 1/2"C)		
420	3#600+#2 GND., 4"C	420N	4#600+#2 GND., 4"C		
460	2 SETS(3#4/0+#2 GND., 2"C)	460N	2 SETS(4#4/0+#2 GND., 2 1/2"C)		
510	2 SETS(3#250+#1 GND., 2 1/2"C)	510N	2 SETS(4#250+#1 GND., 3"C)		
570	2 SETS(3#300+#4 GND., 2 1/2"C)	570N	2 SETS(4#300+#4 GND., 3"C)		
620	2 SETS(3#350+#1/0 GND., 3"C)	620N	2 SETS(4#350+#1/0 GND., 3"C)		
760	2 SETS(3#500+#1/0 GND., 3"C)	760N	2 SETS(4#500+#1/0 GND., 4"C)		
840	2 SETS(3#600+#2/0 GND., 4"C)	840N	2 SETS(4#600+#2/0 GND., 4"C)		
855	3 SETS(3#300+#2/0 GND., 2 1/2"C)	855N	3 SETS(4#300+#2/0 GND., 3"C)		
1005	3 SETS(3#400+#3/0 GND., 3"C)	1005N	3 SETS(4#400+#3/0 GND., 3"C)		
1240	4 SETS(3#350+#4/0 GND., 3"C)	1240N	4 SETS(4#350+#4/0 GND., 4"C)		
1650	5 SETS(3#400+#250 GND., 3"C)	1650N	5 SETS(4#400+#250 GND., 4"C)		
2010	6 SETS(3#400+#350 GND., 3"C)	2010N	6 SETS(4#400+#350 GND., 4"C)		
2660	7 SETS(3#500+#450 GND., 4"C)	2660N	7 SETS(4#500+#400 GND., 4"C)		
3040	8 SETS(3#500+#500 GND., 4"C)	3040N	8 SETS(4#500+#500 GND., 4"C)		
4180	11 SETS(3#500+#700 GND., 4"C)	4180N	11 SETS(4#500+#700 GND., 4"C)		

DRAWING E002 SPECIFIC NOTES

1. ALTERNATE LIGHTING FIXTURE SUBMITTAL MUST BE SUBMITTED TO ENGINEER 10 DAYS PRIOR TO BID FOR REVIEW. SUBMITTAL SHALL BE COMPLETE INCLUDING ALL FIXTURES UTILIZED IN THE PROJECT, AS WELL AS PHOTOMETRIC LAYOUTS VERIFYING IES FOOTCANDLE LEVELS. ANY EXCEPTIONS TO THE SPECIFIED FIXTURES SHALL BE CLEARLY NOTED OR ENTIRE PACKAGE WILL BE REJECTED. **CONTRACTOR MUST BE APPROVED BY ADDENDUM IN ORDER TO QUOTE THE PROJECT.**
2. CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH THE ARCHITECTURAL PLANS PRIOR TO ROUGHING IN. COORDINATE FIXTURE MOUNTING TYPE WITH CEILING TYPES AND MOUNTING HEIGHTS.
3. ALL OVERCURRENT PROTECTIVE DEVICES AND PANELBOARDS SHALL HAVE AN INTERRUPTING RATING (AIC) NOT LESS THAN THE AVAILABLE FAULT CURRENT AT THEIR LINE TERMINALS, AS ESTABLISHED BY THE SHORT CIRCUIT/COORDINATION STUDY.

LUMINARE SCHEDULE (1) (2)

TAG	NOTES	DESCRIPTION	CATALOG	VOLTAGE	LAMP	COLOR TEMP.	CATALOG NUMBER
F1	1,4	2'X4' RECESSED LED EDGE LIT PANEL	COOPER LIGHTING METALUX FP SERIES	120	42W	4000K	24FP4740C
F2	1,4	6" RECESSED LED CAN LIGHT	COOPER LIGHTING HALO HC6 SERIES	120	10W	4000K	HC610D010-HM60525840-61MDC
F3	1	4' LENSED LED STRIP LIGHT	COOPER LIGHTING SNLED LENSED SERIES	120	23W	4000K	4SNLED-LD5-30SL-LC-UNV-L840-CD1-U
F4	1,2,3,4,5	6" ROUND SURFACE MOUNT DOWNLIGHT	COOPER LIGHTING HALO SMD6 SERIES	120	16W	4000K	SMD6R 12 940 WH E
F5	1,2,3,4,5	EXTERIOR LED WALL MOUNT FIXTURE	COOPER LIGHTING IMPACT ELITE LED SERIES	120	26W	4000K	ISW-SA1B-740-U-T4W-FINISH
F6	1,4	2'X4' SURFACE MOUNT LED EDGE LIT PANEL	COOPER LIGHTING METALUX FP SERIES	120	42W	4000K	24FP4740C-CGTSURF24
F7	2,5,6	PARKING LOT LIGHTING	COOPER LIGHTING GALN SERIES	120	210W	4000K	GALN-SB-6-C-840-U-T3-FINISH

LUMINARE SCHEDULE NOTES

1. CONTRACTOR SHALL COORDINATE FIXTURE TRIM TYPE WITH ARCHITECTURAL CEILING TYPE. SEE ARCHITECTURAL RCP.
2. UL LISTED AND APPROVED FOR WET LOCATIONS.
3. COORDINATE BUILDING PENETRATIONS WITH EXTERIOR BUILDING SURFACE MATERIALS. PROVIDE MANUFACTURER'S LISTED PENETRATION SEALS. ALL PENETRATIONS SHALL BE MADE WATERPROOF. COORDINATE WITH OTHER TRADES REQUIREMENTS WHERE APPLICABLE.
4. WHEN FIXTURE IS DENOTED WITH AN "E", EXAMPLE – F1E, ALL EXIT SIGNS, NIGHT LIGHTS, AND EMERGENCY EGRESS LUMINAIRES SHALL BE PROVIDED WITH INTEGRAL BATTERY PACKS (UNIT EQUIPMENT) SIZED FOR 90 MINUTES MINIMUM OPERATION, PER NFPA 101 AND NEC 700.12(F). EMERGENCY FIXTURES SHALL BE CIRCUITED AHEAD OF LOCAL SWITCHING TO MAINTAIN CONTINUOUS CHARGING. REFER ALSO TO GENERAL NOTE 17 ON SHEET E001 FOR SYSTEM-WIDE REQUIREMENTS, INCLUDING FIELD ACCEPTANCE TESTING FOR 90-MINUTE OPERATION. EXTERIOR EMERGENCY/EGRESS LUMINAIRES MOUNTED MORE THAN 10' ABOVE GRADE SHALL BE PROVIDED WITH EITHER:
   - 4.1. A REMOVE, LOCKABLE, WALL-MOUNTED TEST SWITCH LOCATED INSIDE THE BUILDING NEAR THE NORMAL LIGHTING SWITCH, OR
   - 4.2. A FACTORY SELF-TESTING/SELF-DIAGNOSTIC BATTERY PACK.
   - 4.3. TEST SWITCH LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO ROUGH-IN.
   - 4.4. ALL EMERGENCY FIXTURES SHALL COMPLY WITH NFPA 101 TESTING REQUIREMENTS (MONTHLY 30-SECOND, ANNUAL 90-MINUTES).
5. COORDINATE FIXTURE COLOR/FINISH WITH ENGINEER DURING THE SUBMITTAL PROCESS.
6. PROVIDE WITH A 30' POLE. SEE SHEET E501 FOR POLE BASE DETAIL. COORDINATE POLE FINISH DURING SUBMITTALS.

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SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

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SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: MAB
CHECKED BY: KDB

ELECTRICAL ABBREVIATIONS AND SCHEDULES

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.03.25	ADDENDUM 02
REV 2	12.08.25	ADDENDUM 03

E002

VERIFY SCALES
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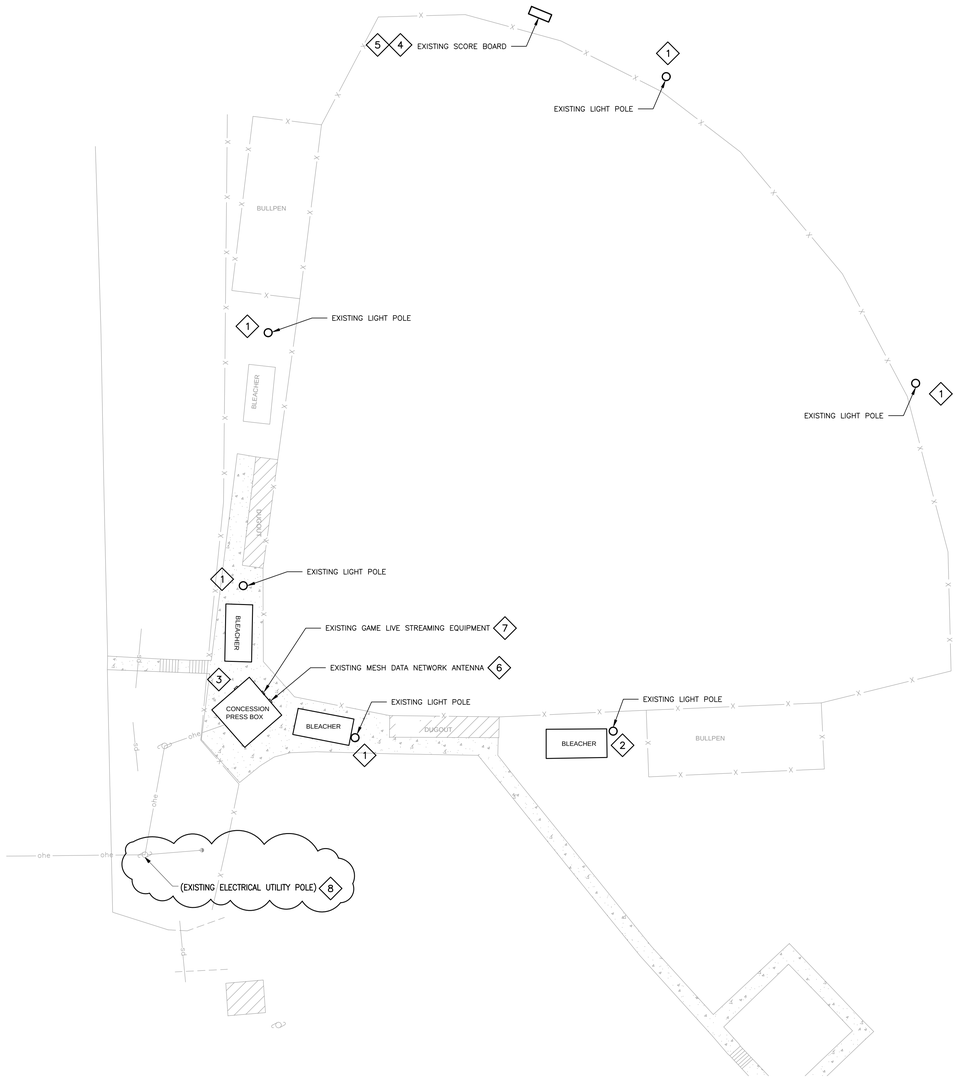
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



1 ELECTRICAL SITE DEMO PLAN - VHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E004 NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND-EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE-ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. REMOVE EXISTING ATHLETIC FIELD LIGHTING SYSTEM IN ITS ENTIRETY WHERE INDICATED, INCLUDING LUMINAIRES, WOOD POLES, ARMS/CROSSARMS, CONTACTORS/RELAYS, CONTROL EQUIPMENT, HANDHOLES, FEEDERS, BRANCH CIRCUITS, GROUND RODS, BONDING JUMPERS, AND ASSOCIATED RACEWAYS. DO NOT DISTURB SCOREBOARD POWER/CONTROLS OR FOUNDATIONS TO REMAIN.
5. COORDINATE ALL POWER OUTAGES, PANEL CUT-OVERS, AND WORK WINDOWS WITH OWNER. PROVIDE TEMPORARY/ALTERNATE FEEDS AS REQUIRED TO MAINTAIN SCOREBOARD AND ANY FIELD SYSTEMS TO REMAIN DURING PANEL REPLACEMENT. PROVIDE TEMPORARY LIGHTING ONLY AS REQUIRED FOR SAFE EGRESS DURING BLEACHER/PRESS BOX WORK.
6. DISCONNECT AND REMOVE LIGHTING FEEDERS AND BRANCH CIRCUITS BACK TO THE UPSTREAM ACTIVE SOURCE (SWITCHBOARD, PANEL, OR JUNCTION) IDENTIFIED FOR CUTBACK. MAINTAIN/PROTECT CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN, INCLUDING ANY TEMPORARY RE-FEEDS DURING PANEL DEMOLITION. DO NOT ABANDON LIVE OR DEAD CONDUCTORS IN PLACE.
7. DEMOLISH EXISTING ELECTRICAL PANELS AS INDICATED. PRIOR TO REMOVAL, IDENTIFY AND MIGRATE (OR TEMPORARILY RE-FEED) ALL CIRCUITS SERVING THE SCOREBOARD AND OTHER SYSTEMS TO REMAIN. DISCONNECT AND CAP FEEDERS AT THE UPSTREAM SOURCE PER ENGINEER DIRECTION. TURN OVER UPDATED PANEL SCHEDULES/REDLINES SHOWING CIRCUITS TRANSFERRED OR MADE SPARE.
8. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. MARK "ABANDONED." COORDINATE STUB-UPS/ENTRIES AT NEW PANELS TO AVOID REUSE OF DETERIORATED RACEWAYS.
9. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
10. REMOVE ABOVE-GRADE HANDHOLES/JUNCTION BOXES ASSOCIATED WITH LIGHTING OR BLEACHER/PRESS BOX SYSTEMS SCHEDULED FOR DEMO. BELOW-GRADE UNITS: REMOVE BOX AND LID WHERE PRACTICABLE; OTHERWISE CUT AND CAP DUCTS, BACKFILL, AND COMPACT. PROTECT ANY HANDHOLES/DUCTS FEEDING THE SCOREBOARD TO REMAIN.
11. REMOVE WOODEN LIGHT POLES BY CONTROLLED LOWERING AND SECTIONING; DO NOT DROP. EXTRACT POLE BUTTS AND REMOVE EMBEDMENT TO A MINIMUM OF 24 INCHES BELOW FINISHED GRADE (OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE GUY ANCHORS, GROUND PLATES, AND HARDWARE. BACKFILL WITH ENGINEERED FILL AND COMPACT. DO NOT DISTURB SCOREBOARD FOUNDATION.
12. REMOVE GROUNDING ELECTRODES AND BONDING JUMPERS ASSOCIATED WITH WOOD POLES AND DEMOLISHED EQUIPMENT. MAINTAIN AND PROTECT GROUNDING ELECTRODES SERVING THE SCOREBOARD OR OTHER EQUIPMENT TO REMAIN.
13. SALVAGE ONLY ITEMS IDENTIFIED BY OWNER PRIOR TO DEMO. DISPOSE OF WOOD POLES AND TREATED TIMBERS (E.G., CREOSOTE/CCA) IN ACCORDANCE WITH EPA/STATE/LOCAL REQUIREMENTS; PROVIDE DISPOSAL MANIFESTS UPON REQUEST. ALL OTHER DEMO MATERIALS SHALL BE LEGALLY DISPOSED OF OR RECYCLED. SCOREBOARD EQUIPMENT IS NOT IN SCOPE FOR SALVAGE/DEMO.
14. HANDLE LEGACY LAMPS/BALLASTS AS UNIVERSAL WASTE. COLLECT, CONTAIN, AND DISPOSE OF IN ACCORDANCE WITH EPA/STATE REQUIREMENTS. PROVIDE DISPOSAL MANIFESTS UPON REQUEST.
15. PROTECT THE EXISTING SCOREBOARD, FIELD/TURF, TRACK SURFACES, FENCES, AND ANY UTILITIES TO REMAIN. USE SPREAD MATS OR LOW-GROUND-PRESSURE EQUIPMENT WHEN MOVING/LOWERING WOOD POLES OVER TURF. REPAIR ANY DAMAGE AT NO COST TO OWNER.
16. COORDINATE WITH CIVIL FOR FIELD ACCESS, HAUL ROUTES, EROSION CONTROL, AND FINAL GRADING/TURF RESTORATION. DESIGNATE POLE LOWERING ZONES AND LOGISTICS PATHS TO AVOID TURF/IRRIGATION DAMAGE AND SCOREBOARD AREAS.
17. REMOVE ALL ABANDONED CONDUCTOR PULL STRINGS, TRACER WIRES, WARNING TAPE, AND MARKERS ASSOCIATED WITH DEMOED RACEWAYS/DUCTS.
18. TERMINATE, LABEL, AND MAKE SAFE ANY TEMPORARY OR EXISTING CONTROL/NETWORK CABLING ENCOUNTERED DURING BLEACHER/PRESS BOX DEMO. RETAIN AND PROTECT ALL CABLING SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
19. MAINTAIN SITE SAFETY: BARRICADE OPEN EXCAVATIONS AND SECURE WORK AREAS. WOOD POLE REMOVAL SHALL USE TAG LINES, SECTIONING, AND CONTROLLED LOWERING PER OSHA/UTILITY PRACTICE; NO FREE-FALLING OF POLES. CRANE/HOIST OPERATIONS SHALL FOLLOW APPROVED LIFT PLANS. MAINTAIN CLEARANCES FROM THE SCOREBOARD AND OVERHEAD LINES.
20. VERIFY NO OVERHEAD LINE OR SCOREBOARD STRUCTURE CLEARANCE CONFLICTS EXIST PRIOR TO LOWERING WOOD POLES OR REMOVING BLEACHER/PRESS BOX COMPONENTS. COORDINATE WITH UTILITY AS REQUIRED.
21. PRIOR TO BACKFILL, DEMONSTRATE THAT ALL DEMO'D RACEWAY ENDS ARE REMOVED OR PERMANENTLY SEALED AGAINST WATER/PEST INTRUSION. NO ABANDONED ELECTRICAL COMPONENTS SHALL REMAIN EXPOSED. PRESERVE ACTIVE RACEWAYS FEEDING THE SCOREBOARD AND ANY TEMPORARY FEEDS USED FOR CUT-OVER.
22. REMOVE ALL ABANDONED CONCRETE PADS, EQUIPMENT STANDS, BOLLARDS, AND ELECTRICAL SITE ELEMENTS ASSOCIATED WITH THE EXISTING LIGHTING, BLEACHERS, AND PRESS BOX. INCLUDE REMOVAL OF GUY ANCHORS/DEADMEN FOR WOOD POLES. DO NOT REMOVE OR DAMAGE ANY SCOREBOARD-RELATED PADS, CONDUITS, OR FOUNDATIONS TO REMAIN.
23. INCLUDE ALL INCIDENTALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.
24. CONTRACTOR SHALL REMOVE ALL EXISTING SOUND EQUIPMENT AND TURN OVER TO THE OWNER.

DRAWING E004 SPECIFIC NOTES

1. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS AND BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE (PANEL/SWITCHBOARD OR FIRST ACTIVE JUNCTION) AND CAP/SEAL RACEWAY ENDS WATERTIGHT. MAINTAIN AND PROTECT ALL CIRCUITS/RACEWAYS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
2. CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS/BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE AND SEAL RACEWAY ENDS WATERTIGHT. REMOVE EXISTING SPRINKLER/IRRIGATION CONTROLLER WITH CARE FOR REUSE; TAG, PROTECT, AND DELIVER TO OWNER AT LOCATION DESIGNATED. DISCONNECT AND LABEL LOW-VOLTAGE CONTROL CABLES; PROTECT VALVE WIRING/CABLING TO REMAIN. COORDINATE WITH GC FOR FINAL LOCATION OF THE IRRIGATION CONTROL VALVE(S) AND FUTURE CONTROLLER MOUNTING; PRESERVE/PROTECT ANY ACTIVE IRRIGATION EQUIPMENT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS TO REMAIN.
3. CONTRACTOR SHALL DEMOLISH EXISTING MAIN DISTRIBUTION PANEL (MDP) AND METER CAN, INCLUDING ASSOCIATED SERVICE CONDUCTORS/RACEWAYS, CT CABINET (IF PRESENT), DISCONNECTS, AND ANCILLARY HARDWARE AS INDICATED. COORDINATE WITH THE UTILITY FOR SHUTOFF, METER PULL, CUTOVER SCHEDULING, AND RECONNECTION REQUIREMENTS; OBTAIN REQUIRED PERMITS/INSPECTIONS. AFTER DE-ENERGIZATION AND LOCKOUT/TAGOUT, REMOVE CONDUCTORS BACK TO THE SERVICE POINT OR FIRST ACTIVE JUNCTION; CAP/SEAL RACEWAY ENDS WATERTIGHT AND INSTALL FILLER PLATES WHERE EQUIPMENT REMAINS. DEMOLISH THE EXISTING GROUNDING ELECTRODE SYSTEM (GEC, GROUND RODS/PLATES, BONDS, AND CONNECTION HARDWARE) ASSOCIATED WITH THIS SERVICE; REMOVE EXOTHERMIC/MECHANICAL CONNECTIONS AND CUT/EXTRACT ELECTRODES TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE CONFLICTS OCCUR. TURN OVER REDLINES SHOWING CIRCUITS TRANSFERRED, MADE SPARE, OR ABANDONED.
4. EXISTING SCOREBOARD TO REMAIN AND BE REUSED. PROTECT IN PLACE DURING DEMOLITION AND ALL SUBSEQUENT CONSTRUCTION ACTIVITIES.
5. REMOVE AND DISPOSE OF EXISTING CONDUCTORS FROM SOURCE TO SCOREBOARD. LEAVE EXISTING CONDUIT IN PLACE FOR REUSE; CAP AND LABEL BOTH ENDS. PROVIDE PULL STRING AND VERIFY CONDUIT IS CLEAR/CONTINUOUS. PROTECT DURING DEMOLITION; REPAIR ANY DAMAGE PRIOR TO REUSE.
6. EXISTING MESH NETWORK SYSTEM TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.
7. EXISTING GAME LIVE STREAMING EQUIPMENT TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.
8. UTILITY SHALL REMOVE EXISTING SINGLE-PHASE TRANSFORMER BANK FROM POLE AND DEMOLISH POLE.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO REGISTERED PROFESSIONAL ENGINEER 17218 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL SITE DEMO PLAN - VHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E004

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

1 ELECTRICAL SITE DEMO PLAN - VHS BASEBALL
SCALE: 1" = 10'-0"

DRAWING E005 NOTES

1. CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND-EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE-ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. COORDINATE ALL PLANNED POWER OUTAGES WITH OWNER AND UTILITY. PROVIDE MINIMUM FOURTEEN (14) DAYS ADVANCE WRITTEN NOTICE. SCHEDULE OUTAGES TO MINIMIZE DISRUPTION TO OPERATIONS (AFTER-HOURS/WEEKEND AS REQUIRED). PROVIDE TEMPORARY POWER AS NEEDED FOR CRITICAL LOADS. OBTAIN OWNER APPROVAL PRIOR TO SHUTDOWN AND RESTORE SERVICE SAME DAY.
5. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
6. INCLUDE ALL INCIDENTIALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.
7. COORDINATE ALL WORK WITH LOCAL UTILITY COMPANY. ALL COSTS BY THE UTILITY COMPANY WORK SHALL BE PAID FROM THE ELECTRICAL UTILITY ALLOWANCE.

DRAWING E005 SPECIFIC NOTES

1 CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY COMPANY TO RELOCATE EXISTING ELECTRICAL DISTRIBUTION DIP POLE. SEE SHEET E102 FOR PROPOSED NEW LOCATION. CONTRACTOR SHALL COORDINATE WITH UTILITY TO REMOVE THE FOLLOWING:

- EXISTING SERVICE ENTRANCE FEEDER FROM ELECTRICAL UTILITY DIP POLE TO SINGLE STORY BRICK BUILDING SERVICE ENTRANCE. CONTRACTOR SHALL DEMOLISH CONDUCTOR AND RESERVE CONDUIT TO BE RE-USED. (BY CONTRACTOR)
- EXISTING SERVICE ENTRANCE FEEDER FROM ELECTRICAL UTILITY DIP POLE TO UNKNOWN LOCATION. CONTRACTOR SHALL FIELD VERIFY EXACT TERMINATION POINT. CONTRACTOR SHALL DEMOLISH CONDUCTOR AND RESERVE CONDUIT TO BE RE-USED. (BY CONTRACTOR)
- OVERHEAD CABLE FROM ELECTRICAL UTILITY DIP POLE TO ELECTRICAL UTILITY TRANSFORMER POLE. (BY UTILITY)

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MACHADO · PATANO · KILPATRICK · JONES
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Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

YOUR PROJECT OUR PRIORITY · NO EXCUSES

BRADLEY P. PATANO
REGISTERED PROFESSIONAL
ENGINEER
12/8/25
#21411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL SITE DEMO PLAN - VHS BASBALL

NO.	DATE	REVISION / SUBMITTAL
REV.0	10.13.25	ISSUED FOR CONSTRUCTION
REV.1	12.08.25	ADDENDUM 03

E005

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:11 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
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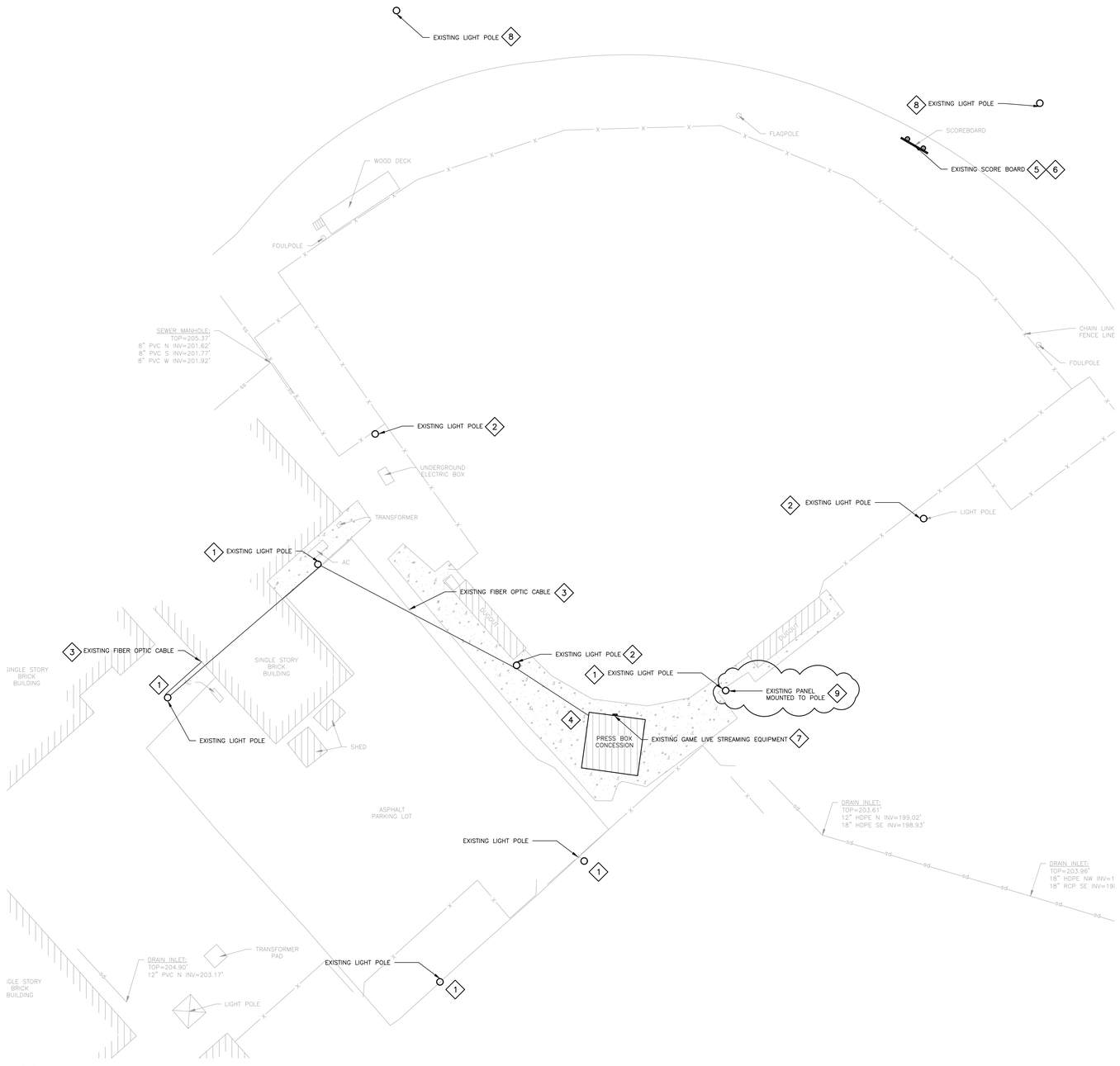

1 ELECTRICAL SITE DEMO PLAN - WCHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E006 NOTES

1. CONTRACTOR SHALL FIELD–VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY ENGINEER OF DISCREPANCIES BEFORE PROCEEDING.
2. CALL 811 AND COORDINATE PRIVATE UTILITY LOCATES. POTHOLE AND HAND–EXPOSE WHEREVER UNDERGROUND CONFLICTS ARE POSSIBLE. PROTECT ALL UTILITIES TO REMAIN.
3. IMPLEMENT LOCKOUT/TAGOUT PER OSHA/NEC. VERIFY ALL CIRCUITS ARE DE–ENERGIZED AT THE SOURCE WITH APPROVED TEST INSTRUMENTS BEFORE DISCONNECTING OR CUTTING ANY CONDUCTORS.
4. REMOVE EXISTING ATHLETIC FIELD LIGHTING SYSTEM IN ITS ENTIRETY WHERE INDICATED, INCLUDING LUMINAIRES, WOOD POLES, ARMS/CROSSARMS, CONTACTORS/RELAYS, CONTROL EQUIPMENT, HANDHOLES, FEEDERS, BRANCH CIRCUITS, GROUND RODS, BONDING JUMPERS, AND ASSOCIATED RACEWAYS. DO NOT DISTURB SCOREBOARD POWER/CONTROLS OR FOUNDATIONS TO REMAIN.
5. COORDINATE ALL POWER OUTAGES, PANEL CUT–OVERS, AND WORK WINDOWS WITH OWNER. PROVIDE TEMPORARY/ALTERNATE FEEDS AS REQUIRED TO MAINTAIN SCOREBOARD AND ANY FIELD SYSTEMS TO REMAIN DURING PANEL REPLACEMENT. PROVIDE TEMPORARY LIGHTING ONLY AS REQUIRED FOR SAFE EGRESS DURING BLEACHER/PRESS BOX WORK.
6. DISCONNECT AND REMOVE LIGHTING FEEDERS AND BRANCH CIRCUITS BACK TO THE UPSTREAM ACTIVE SOURCE (SWITCHBOARD, PANEL, OR JUNCTION) IDENTIFIED FOR CUTBACK. MAINTAIN/PROTECT CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN, INCLUDING ANY TEMPORARY RE–FEEDS DURING PANEL DEMOLITION. DO NOT ABANDON LIVE OR DEAD CONDUCTORS IN PLACE.
7. DEMOLISH EXISTING ELECTRICAL PANELS AS INDICATED. PRIOR TO REMOVAL, IDENTIFY AND MIGRATE (OR TEMPORARILY RE–FEED) ALL CIRCUITS SERVING THE SCOREBOARD AND OTHER SYSTEMS TO REMAIN. DISCONNECT AND CAP FEEDERS AT THE UPSTREAM SOURCE PER ENGINEER DIRECTION. TURN OVER UPDATED PANEL SCHEDULES/REDLINES SHOWING CIRCUITS TRANSFERRED OR MADE SPARE.
8. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. MARK "ABANDONED." COORDINATE STUB–UPS/ENTRIES AT NEW PANELS TO AVOID REUSE OF DETERIORATED RACEWAYS.
9. REMOVE ABANDONED CONDUITS WHERE ACCESSIBLE. WHERE REMOVAL WOULD DAMAGE ACTIVE UTILITIES OR THE SCOREBOARD/FIELD SYSTEMS TO REMAIN, CUT CONDUIT FLUSH AND CAP WITH LISTED WATERTIGHT DUCT PLUGS. LABEL "ABANDONED."
10. REMOVE *ABOVE–GRADE* HANDHOLES/JUNCTION BOXES ASSOCIATED WITH LIGHTING OR BLEACHER/PRESS BOX SYSTEMS SCHEDULED FOR DEMO. BELOW–GRADE UNITS: REMOVE BOX AND LID WHERE PRACTICABLE; OTHERWISE CUT AND CAP DUCTS, BACKFILL, AND COMPACT. PROTECT ANY HANDHOLES/DUCTS FEEDING THE SCOREBOARD TO REMAIN.
11. REMOVE WOODEN LIGHT POLES BY CONTROLLED LOWERING AND SECTIONING; DO NOT DROP. EXTRACT POLE BUTTS AND REMOVE EMBEDMENT TO A MINIMUM OF 24 INCHES BELOW FINISHED GRADE (OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE GUY ANCHORS, GROUND PLATES, AND HARDWARE. BACKFILL WITH ENGINEERED FILL AND COMPACT. DO NOT DISTURB SCOREBOARD FOUNDATION.
12. REMOVE GROUNDING ELECTRODES AND BONDING JUMPERS ASSOCIATED WITH WOOD POLES AND DEMOLISHED EQUIPMENT. MAINTAIN AND PROTECT GROUNDING ELECTRODES SERVING THE SCOREBOARD OR OTHER EQUIPMENT TO REMAIN.
13. SALVAGE ONLY ITEMS IDENTIFIED BY OWNER PRIOR TO DEMO. DISPOSE OF WOOD POLES AND TREATED TIMBERS (E.G., CREOSOTE/CCA) IN ACCORDANCE WITH EPA/STATE/LOCAL REQUIREMENTS; PROVIDE DISPOSAL MANIFESTS UPON REQUEST. ALL OTHER DEMO MATERIALS SHALL BE LEGALLY DISPOSED OF OR RECYCLED. SCOREBOARD EQUIPMENT IS NOT IN SCOPE FOR SALVAGE/DEMO.
14. HANDLE LEGACY LAMPS/BALLASTS AS UNIVERSAL WASTE. COLLECT, CONTAIN, AND DISPOSE OF IN ACCORDANCE WITH EPA/STATE REQUIREMENTS. PROVIDE DISPOSAL MANIFESTS UPON REQUEST.
15. PROTECT THE EXISTING SCOREBOARD, FIELD/TURF, TRACK SURFACES, FENCES, AND ANY UTILITIES TO REMAIN. USE SPREAD MATS OR LOW–GROUND–PRESSURE EQUIPMENT WHEN MOVING/LOWERING WOOD POLES OVER TURF. REPAIR ANY DAMAGE AT NO COST TO OWNER.
16. COORDINATE WITH CIVIL FOR FIELD ACCESS, HAUL ROUTES, EROSION CONTROL, AND FINAL GRADING/TURF RESTORATION. DESIGNATE POLE LOWERING ZONES AND LOGISTICS PATHS TO AVOID TURF/IRRIGATION DAMAGE AND SCOREBOARD AREAS.
17. REMOVE ALL ABANDONED CONDUCTOR PULL STRINGS, TRACER WIRES, WARNING TAPE, AND MARKERS ASSOCIATED WITH DEMOED RACEWAYS/DUCTS.
18. TERMINATE, LABEL, AND MAKE SAFE ANY TEMPORARY OR EXISTING CONTROL/NETWORK CABLING ENCOUNTERED DURING BLEACHER/PRESS BOX DEMO. RETAIN AND PROTECT ALL CABLING SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.
19. MAINTAIN SITE SAFETY: BARRICADE OPEN EXCAVATIONS AND SECURE WORK AREAS. WOOD POLE REMOVAL SHALL USE TAG LINES, SECTIONING, AND CONTROLLED LOWERING PER OSHA/UTILITY PRACTICE; NO FREE–FALLING OF POLES. CRANE/HOIST OPERATIONS SHALL FOLLOW APPROVED LIFT PLANS. MAINTAIN CLEARANCES FROM THE SCOREBOARD AND OVERHEAD LINES.
20. VERIFY NO OVERHEAD LINE OR SCOREBOARD STRUCTURE CLEARANCE CONFLICTS EXIST PRIOR TO LOWERING WOOD POLES OR REMOVING BLEACHER/PRESS BOX COMPONENTS. COORDINATE WITH UTILITY AS REQUIRED.
21. PRIOR TO BACKFILL, DEMONSTRATE THAT ALL DEMO'D RACEWAY ENDS ARE REMOVED OR PERMANENTLY SEALED AGAINST WATER/PEST INTRUSION. NO ABANDONED ELECTRICAL COMPONENTS SHALL REMAIN EXPOSED. PRESERVE ACTIVE RACEWAYS FEEDING THE SCOREBOARD AND ANY TEMPORARY FEEDS USED FOR CUT–OVER.
22. REMOVE ALL ABANDONED CONCRETE PADS, EQUIPMENT STANDS, BOLLARDS, AND ELECTRICAL SITE ELEMENTS ASSOCIATED WITH THE EXISTING LIGHTING, BLEACHERS, AND PRESS BOX. INCLUDE REMOVAL OF GUY ANCHORS/DEADMEN FOR WOOD POLES. DO NOT REMOVE OR DAMAGE ANY SCOREBOARD–RELATED PADS, CONDUITS, OR FOUNDATIONS TO REMAIN.
23. INCLUDE ALL INCIDENTIALS REQUIRED FOR A COMPLETE AND SAFE DEMOLITION WHETHER OR NOT SPECIFICALLY CALLED OUT IN THESE NOTES.

DRAWING E006 SPECIFIC NOTES

1 CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS/BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE AND SEAL RACEWAY ENDS WATERTIGHT. REMOVE EXISTING SPRINKLER/IRRIGATION CONTROLLER WITH CARE FOR REUSE; TAG, PROTECT, AND DELIVER TO OWNER AT LOCATION DESIGNATED. DISCONNECT AND LABEL LOW–VOLTAGE CONTROL CABLES; PROTECT VALVE WIRING/CABLING TO REMAIN. COORDINATE WITH GC FOR FINAL LOCATION OF THE IRRIGATION CONTROL VALVE(S) AND FUTURE CONTROLLER MOUNTING; PRESERVE/PROTECT ANY ACTIVE IRRIGATION EQUIPMENT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS TO REMAIN.

2 CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING/SECTIONING), ARMS, AUDIO SPEAKERS AND BRACKETS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, GUY ANCHORS/DEADMEN, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). DISPOSE OF TREATED WOOD POLES PER EPA/STATE/LOCAL REQUIREMENTS. REMOVE FEEDERS AND BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE (PANEL/SWITCHBOARD OR FIRST ACTIVE JUNCTION); IDENTIFY AND PRESERVE CIRCUITS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN. CAP/SEAL ALL ABANDONED RACEWAY ENDS WATERTIGHT. DO NOT DISTURB SCOREBOARD POWER/CONTROLS, FIELD/TURF, OR IRRIGATION/NETWORK CABLING TO REMAIN; USE LOW–GROUND–PRESSURE METHODS AND MATS OVER TURF AS REQUIRED.

3 CONTRACTOR SHALL DEMOLISH EXISTING OVERHEAD FIBER–OPTIC CABLE AND ALL SUPPORT HARDWARE FROM THE SOFTBALL PRESS BOX TO THE EXISTING SINGLE STORY BRICK BUILDING IT ROOM, INCLUDING MESSENGER/STRAND, LASHING WIRE, CLAMPS, J–HOOKS, AND WEATHERHEADS. COORDINATE WITH DISTRICT I.T.; VERIFY CIRCUIT IS DECOMMISSIONED AND NOT SERVING THE SCOREBOARD OR OTHER FIELD SYSTEMS TO REMAIN. REMOVE AERIAL HARDWARE FROM WOOD POLES SCHEDULED FOR DEMO. AT BUILDING/ENCLOSURE PENETRATIONS, REMOVE AND PATCH/SEAL OPENINGS TO MATCH THE EXISTING WALL/ROOF SYSTEM — WATERTIGHT, PEST–TIGHT. AT THE SOURCE, EITHER REMOVE CABLE AND CAP/SEAL PORTS OR COIL, LABEL "DARK," AND SECURE INSIDE THE ENCLOSURE PER ENGINEER DIRECTION. PROVIDE AS–DEMOLISHED REDLINES INDICATING FINAL ENDPOINTS AND REMOVALS.

4 CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL PANELS, FEEDERS/BRANCH CONDUCTORS, CONDUITS, BOXES, AND ACCESSORIES FROM THE EXISTING PRESS BOX AS INDICATED. REMOVE FEEDERS ("MAIN CONDUCTORS") BACK TO THE UTILITY SERVICE POINT (TRANSFORMER SECONDARY TERMINALS, CT/ METERING ASSEMBLY, OR FIRST ACTIVE JUNCTION) AS DIRECTED BY THE UTILITY; DO NOT OPEN OR DISTURB UTILITY–OWNED EQUIPMENT WITHOUT UTILITY PRESENCE. COORDINATE METER PULL/SHUTOFF AND CUT–OVER WITH THE UTILITY. CAP/SEAL ALL ABANDONED RACEWAY ENDS WATERTIGHT. COORDINATE LOCKOUT/TAG–OUT AND OUTAGE WINDOWS WITH OWNER. REMOVE ASSOCIATED GROUNDING/BONDING CONDUCTORS AND ELECTRODES FOR THIS PRESS BOX SERVICE/FEED AS PART OF DEMOLITION UNLESS NOTED TO REMAIN. PATCH AND SEAL ALL WALL/ROOF PENETRATIONS TO MATCH ADJACENT CONSTRUCTION — WATERTIGHT, PEST–TIGHT. COORDINATE WITH DISTRICT I.T. BEFORE REMOVING ANY LOW–VOLTAGE/NETWORK CABLING; PRESERVE ANY CIRCUITS SERVING THE SCOREBOARD OR FIELD SYSTEMS TO REMAIN. TURN OVER AS–DEMOLISHED REDLINES SHOWING CUTBACK/TERMINATION POINTS.

5 EXISTING SCOREBOARD TO REMAIN AND BE REUSED. PROTECT IN PLACE DURING DEMOLITION AND ALL SUBSEQUENT CONSTRUCTION ACTIVITIES.

6 REMOVE AND DISPOSE OF EXISTING CONDUCTORS FROM SOURCE TO SCOREBOARD. LEAVE EXISTING CONDUIT IN PLACE FOR REUSE; CAP AND LABEL BOTH ENDS. PROVIDE PULL STRING AND VERIFY CONDUIT IS CLEAR/CONTINUOUS. PROTECT DURING DEMOLITION; REPAIR ANY DAMAGE PRIOR TO REUSE.

7 EXISTING GAME LIVE STREAMING EQUIPMENT TO BE REMOVED, PRESERVED, AND REINSTALLED IN NEW PRESS BOX. CONTRACTOR SHALL CAREFULLY REMOVE ALL COMPONENTS DURING CONSTRUCTION AND PROTECT FOR REUSE. COORDINATE FINAL REINSTALLATION LOCATION AND CONNECTIONS WITH ENGINEER AND OWNER.

8 CONTRACTOR SHALL DEMOLISH EXISTING FIELD LIGHTING, WOOD POLES (CONTROLLED LOWERING), ARMS, RECEPTACLES, AND ALL ASSOCIATED ACCESSORIES, HANDHOLES, RACEWAYS, AND FOUNDATIONS (REMOVE TO 24" MIN BELOW FINISHED GRADE OR FULL DEPTH WHERE NEW WORK CONFLICTS). REMOVE FEEDERS AND BRANCH CONDUCTORS BACK TO THE UPSTREAM ACTIVE SOURCE (PANEL/SWITCHBOARD OR FIRST ACTIVE JUNCTION) AND CAP/SEAL RACEWAY ENDS WATERTIGHT. MAINTAIN AND PROTECT ALL CIRCUITS/RACEWAYS SERVING THE SCOREBOARD AND FIELD SYSTEMS TO REMAIN.

9 CONTRACTOR SHALL DEMOLISH EXISTING ELECTRICAL PANEL AND ALL ASSOCIATED FEEDERS AND BRANCH CIRCUITS. COORDINATE ALL DISCONNECTION WITH ENGINEER PRIOR TO DEMOLITION. REMOVE CONDUCTORS BACK TO THEIR SOURCE AND PROVIDE PROPER TERMINATION. CAP AND MAKE SAFE ALL ABANDONED CONDUITS. REPAIR ALL FINISHES AFFECTED BY THE WORK.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO
REGISTERED PROFESSIONAL ENGINEER
12/8/25
STATE OF MISSISSIPPI
21411

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL SITE DEMO PLAN - WCHS SOFTBALL FIELD

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.03.25	ADDENDUM 02
REV 2	12.08.25	ADDENDUM 03

E006

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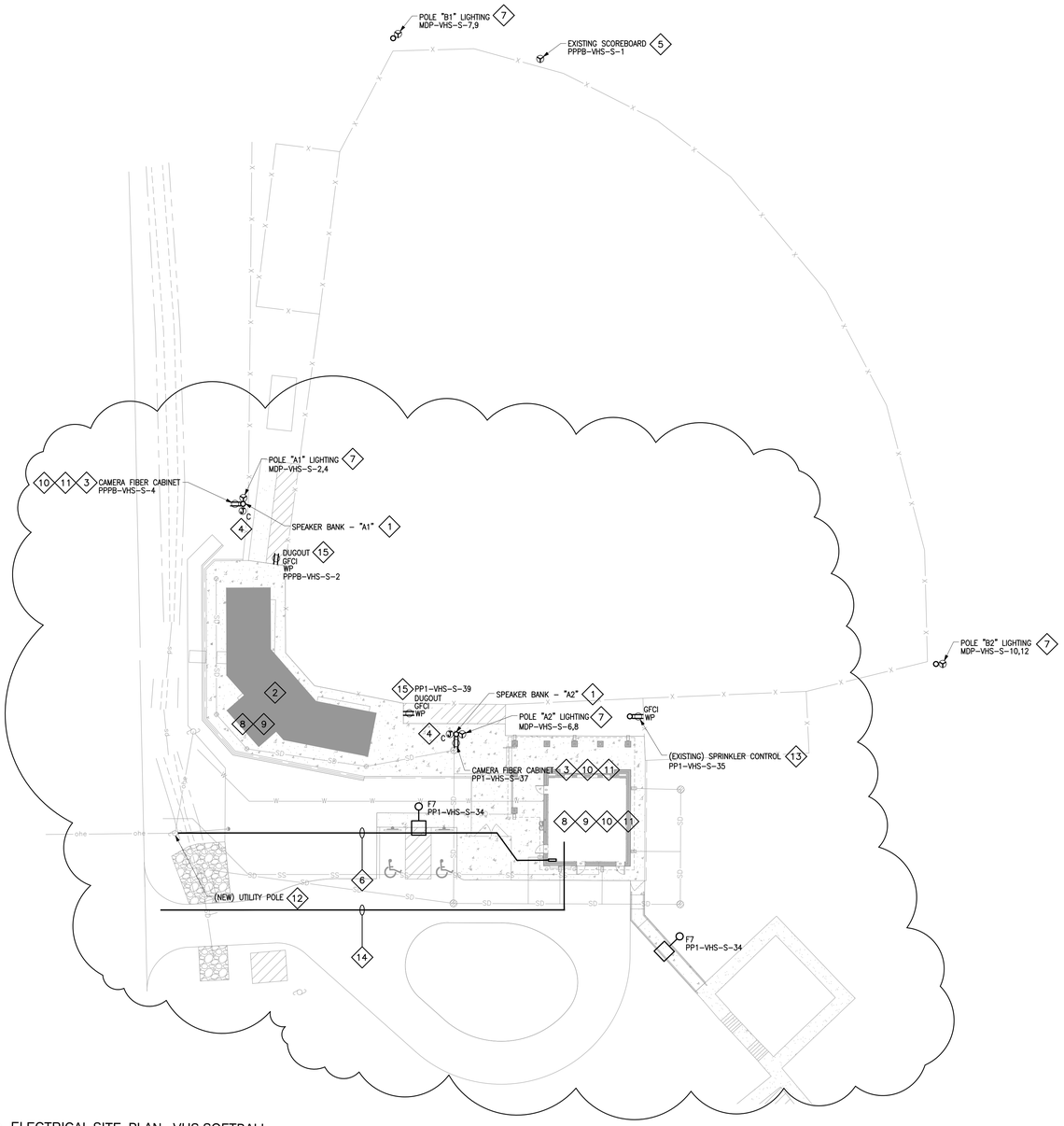

1 ELECTRICAL SITE PLAN - VHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E101 NOTES

1. REFERENCE SPECIFICATION SECTION 265668 – ATHLETIC FIELD LIGHTING FOR FIXTURE TYPES, POLES/FOUNDATIONS, WIRING METHODS, CONTROLS/INTERFACES, GROUNDING/BONDING, PHOTOMETRIC PERFORMANCE, SUBMITTALS, FIELD AIMING/FOCUSING, COMMISSIONING, AND WARRANTY REQUIREMENTS. COORDINATE INSTALLATION WITH VENDOR'S STAMPED SHOP DRAWINGS AND APPROVED PHOTOMETRICS.
2. POLE FOUNDATIONS, ANCHOR BOLT LAYOUTS, AND REACTION LOADS SHALL BE PROVIDED BY THE ATHLETIC LIGHTING MANUFACTURER, SIGNED AND SEALED BY A MISSISSIPPI–LICENSED PROFESSIONAL ENGINEER, BASED ON PROJECT GEOTECHNICAL PARAMETERS. SUBMIT STAMPED FOUNDATION DETAILS/CALCULATIONS, ANCHOR BOLT TEMPLATES, AND SETTING DRAWINGS FOR REVIEW PRIOR TO EXCAVATION. COORDINATE POLE LOCATIONS, OFFSETS, FINISH GRADES, AND CONDUIT ENTRIES WITH CIVIL/STRUCTURAL; FIELD–VERIFY BEFORE EXCAVATION.
3. ALL POLES SHALL BE INSTALLED PLUMB WITH FINAL AIMING PER MANUFACTURER'S SIGNED AND SEALED PHOTOMETRICS AND AIMING DIAGRAMS. PROVIDE FINAL AIMING REPORTS AND AS–BUILTS.
4. PROVIDE A GROUNDING ELECTRODE SYSTEM AT EACH POLE PER NEC AND MANUFACTURER REQUIREMENTS. BOND POLE, LUMINAIRES, CAMERA ENCLOSURES, HANDHOLES, AND ALL METALLIC COMPONENTS.
5. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC WITH LONG–RADIUS SWEEPS. PROVIDE TRACER WIRE, WARNING TAPE, AND 36–INCH MINIMUM COVER UNLESS NOTED OTHERWISE.
6. NO SPLICING OF FEEDERS OR LIGHTING CIRCUITS IS PERMITTED WITHIN POLES OR BELOW GRADE EXCEPT THROUGH LISTED EQUIPMENT AND WHEN SHOWN ON THE DRAWINGS.
7. SEAL ALL CONDUIT ENTRIES TO POLES, JUNCTION BOXES, AND EQUIPMENT CABINETS WITH LISTED SEALANTS/PLUGS TO PREVENT MOISTURE, GAS, AND INSECT INTRUSION.
8. PROTECT EXISTING SCOREBOARD CIRCUITS, IRRIGATION, COMMUNICATIONS, AND UNDERGROUND UTILITIES DURING CONSTRUCTION. REPAIR DAMAGE TO EQUAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
9. PROVIDE OSHA–COMPLIANT TRENCHING/SHORING, BARRICADES, AND SITE SAFETY. BACKFILL WITH ENGINEERED FILL, COMPACT, AND RESTORE TURF/SURFACES TO MATCH ADJACENT CONDITIONS.
10. FINAL COMMISSIONING SHALL BE PERFORMED WITH OWNER, ENGINEER, AND MANUFACTURER REPRESENTATIVE PRESENT. VERIFY OPERATION, CONTROLS, AND AIMING; RECORD LIGHT LEVELS AND TURN OVER AS–BUILTS AND COMMISSIONING REPORTS.
11. ALL JUNCTION BOXES DENOTED WITH THE LETTER "C" ARE FOR SECURITY CAMERAS (CAMERAS BY OWNER). CONTRACTOR SHALL PROVIDE AND INSTALL A 6–STRAND SINGLE–MODE FIBER–OPTIC CABLE IN 1" CONDUIT FROM THE I.T. RACK IN THE CONCESSIONS BUILDING TO EACH LIGHT POLE, AND TERMINATE IN A NEW EXTERIOR CAMERA FIBER CABINET AT THE BASE OF EACH POLE; SEE SHEET E502 FOR CABINET DETAILS. CAMERA POLE JUNCTION BOXES SHALL BE MOUNTED TO EACH LIGHT POLE AT THE HEIGHT/LOCATION SHOWN AND SHALL BE HOFFMAN 8"X6"X4" (864) NEMA 3R GASKETED STEEL J–BOX (OR EQUAL) WITH DRIP SHIELD AND WEATHERTIGHT HUBS; USE 304 STAINLESS OR HOT–DIP GALVANIZED FASTENERS AND PROVIDE ISOLATION WASHERS TO AVOID DISSIMILAR–METAL CORROSION. BOND THE BOX TO THE POLE GROUND. PROVIDE AND INSTALL A NEMA 5–20R RECEPTACLE INSIDE THE CAMERA FIBER CABINET (WEATHER–RESISTANT, TAMPER–RESISTANT, WITH IN–USE COVER). PROVIDE AND INSTALL OUTDOOR–RATED CAT 6 FROM THE CAMERA J–BOX TO THE CAMERA FIBER CABINET IN WEATHERPROOF RACEWAY; LABEL BOTH ENDS. SEAL ALL PENETRATIONS WEATHER–TIGHT; MAINTAIN SEPARATION FROM FIELD–LIGHTING CIRCUITS. TEST AND CERTIFY FIBER AND COPPER CABLING PER SPECIFICATIONS.
12. CIRCUIT PP1–VHS–S–34 SHALL BE CONTROLLED BY LIGHTING CONTACTOR LC–VHS; SEE SHEET E201 FOR CONTACTOR LOCATION AND SHEET E502 FOR WIRING DETAILS.

DRAWING E101 SPECIFIC NOTES

1. SPEAKER BANKS SHALL BE MOUNTED TO THE NEW LIGHT POLES. SEE SHEET E611 FOR MORE DETAILS.
2. CONTRACTOR SHALL PROVIDE A #4/0 BARE COPPER CONDUCTOR FROM BLEACHERS TO GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL BOND THE BLEACHERS IN A MINIMUM OF 6 PLACES.
3. CONTRACTOR SHALL MOUNT RECEPTACLE INSIDE CAMERA FIBER CABINET. SEE SHEET E502 FOR DETAILS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL A HOFFMAN 864 BOX FOR CAMERA MOUNTING. MOUNT BOX AT 30'–0" AFG.
5. CONTRACTOR SHALL LOCATE/INTERCEPT THE EXISTING SCOREBOARD POWER AND CONTROL CONDUIT AND EXTEND IT TO THE NEW PRESS BOX. PROVIDE A NEW BRANCH CIRCUIT FROM PANEL PPPB–VHS–S TO THE EXISTING SCOREBOARD USING #8 AWG CU THWN–2 (VOLTAGE–DROP BASIS). FIELD–COORDINATE FINAL TERMINATION WITH THE SCOREBOARD; PROVIDE BREAKER/DISCONNECT AS SCHEDULED. REMOVE OR CAP/SEAL ANY ABANDONED FEEDS WATERTIGHT. PROVIDE CONTROL WIRING AS REQUIRED.
6. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 4" CONDUIT FROM NEW ELECTRICAL UTILITY POLE TO NEW PANEL MDP–VHS–S. REFERENCE ONE–LINE DIAGRAM ON SHEET E601 FOR SERVICE ENTRANCE CONDUCTOR SIZING. COORDINATE WITH LOCAL UTILITY FOR POLE TURN–UP, TERMINATION AT TRANSFORMER BANK, AND METER REQUIREMENTS.
7. PANELBOARD MDP–VHS–S IS LOCATED IN THE CONCESSIONS BUILDING.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2–INCH PVC CONDUIT FROM NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING TO NEW TELECOM. RACK LOCATED IN PRESS BOX. CONDUIT SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
9. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 6–STRAND (3 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM NEW IT RACK IN THE CONCESSIONS TO NEW IT RACK IN THE PRESS BOX. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF).
10. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 1–INCH PVC CONDUIT FROM NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING TO NEW CAMERA FIBER CABINET AT LIGHT POLE. CONDUIT SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
11. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 6–STRAND (3 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM NEW IT RACK IN THE CONCESSIONS TO NEW CAMERA FIBER CABINET AT LIGHT POLE. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF).
12. UTILITY SHALL INSTALL NEW THREE–PHASE TRANSFORMER BANK AND POLE.
13. CONTRACTOR SHALL REINSTALL EXISTING SPRINKLER CONTROL SYSTEM (REMOVED ON SHEET E004). CONTRACTOR SHALL PROVIDE 120V POWER TO THE SYSTEM AS SHOWN. CONTRACTOR SHALL PROVIDE AND INSTALL C–CHANNEL MOUNTING RACK FOR SPRINKLER CONTROL SYSTEM AND ASSOCIATED RECEPTACLE. SUBMIT SHOP DRAWINGS FOR ENGINEERING APPROVAL PRIOR TO FABRICATION.
14. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 3" CONDUIT TO THE STREET FOR FUTURE FIBER INTERNET INSTALLATION. COORDINATE FINAL TERMINATION LOCATION AND TYPE WITH OWNER AND ENGINEER PRIOR TO ROUGH–IN. PROVIDE CONDUIT WITH PULL STRING AND CAP AT BOTH ENDS.
15. CONTRACTOR SHALL PROVIDE UNISTRUT FOR MOUNTING DUGOUT RECEPTACLES. MOUNT RECEPTACLES 18" AFG. SUBMIT MOUNTING SHOP DRAWINGS FOR ENGINEERING APPROVAL PRIOR TO FABRICATION.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO
REGISTERED PROFESSIONAL ENGINEER
12/8/25
E7411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
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ELECTRICAL SITE PLAN - VHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.03.25	ADDENDUM 02
REV 2	12.08.25	ADDENDUM 03

E101

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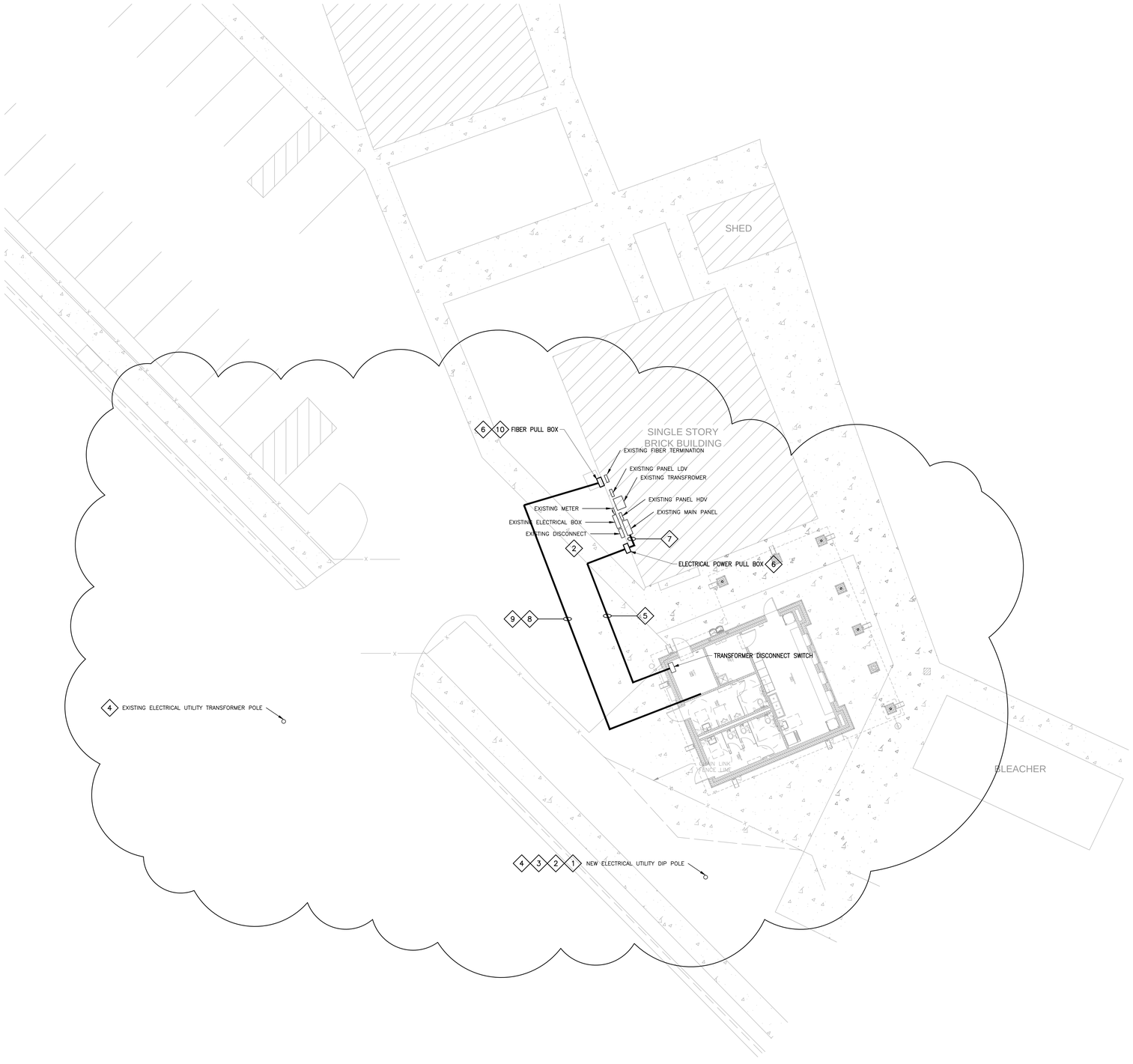

1 ELECTRICAL SITE PLAN - VHS BASEBALL
SCALE: 1" = 10'-0"

DRAWING E102 NOTES

1. ALL UNDERGROUND CONDUIT BENDS SHALL BE LONG-RADIUS (36-INCH MINIMUM) RIGID GALVANIZED STEEL (RGS).
2. INSTALL DETECTABLE METALLIC WARNING TAPE 12" ABOVE ALL EXTERIOR CONDUITS. COLOR: RED FOR POWER, ORANGE FOR TELECOMMUNICATIONS.
3. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
4. SAW CUT THROUGH EXISTING ASPHALT AND CONCRETE AND RETURN SURFACE GRADE MATERIALS AND GROUND TO ORIGINAL CONDITION.
5. ALL CONDUIT SHALL BE INSTALLED WITH A MINIMUM COVER OF 36 INCHES BELOW FINISHED GRADE, UNLESS OTHERWISE REQUIRED BY NEC OR LOCAL UTILITY.
6. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING WITH MECHANICAL/PLUMBING PLANS FOR SANITARY SEWER CROSSING.
7. CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTINGS WITH ALL FOOTINGS, FOUNDATIONS, AND PILE LAYOUTS.
8. ALL ELECTRICAL POWER UTILITY COST SHALL BE PAID FROM THE ELECTRICAL POWER UTILITY ALLOWANCE.
9. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULL STRINGS AND CAP ALL ENDS UNTIL USE.

DRAWING E102 SPECIFIC NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE LOCAL ELECTRICAL UTILITY COMPANY TO RELOCATE THE EXISTING ELECTRICAL DISTRIBUTION DIP POLE. NEW LOCATION AS SHOWN ON THIS SHEET. ALL WORK ASSOCIATED WITH THE RELOCATION SHALL BE PERFORMED BY, OR UNDER THE DIRECTION OF, THE UTILITY COMPANY. COORDINATE OUTAGE TIMING AND SHUTDOWNS WITH THE OWNER AND UTILITY. ALL UTILITY COSTS SHALL BE PAID FROM THE ELECTRICAL UTILITY ALLOWANCE.
2. PROVIDE NEW SERVICE-ENTRANCE CONDUCTORS FROM THE NEW UTILITY DIP POLE TO THE SINGLE-STORY BRICK BUILDING SERVICE ENTRANCE. INTERCEPT EXISTING SERVICE-ENTRANCE CONDUIT, RETAIN FOR REUSE, AND EXTEND TO THE NEW POLE LOCATION; PROVIDE NEW CONDUIT/RISERS AS REQUIRED. COORDINATE CONDUCTOR SIZE, NEUTRAL, AND GROUNDING WITH EXISTING SERVICE EQUIPMENT AND UTILITY REQUIREMENTS.
3. PROVIDE NEW SERVICE-ENTRANCE CONDUCTORS FROM THE NEW UTILITY DIP POLE TO THE UNKNOWN SERVICE ENTRANCE (FIELD-VERIFY EXACT TERMINATION/LOCATION). INTERCEPT EXISTING SERVICE-ENTRANCE CONDUIT, RETAIN FOR REUSE, AND EXTEND TO THE NEW POLE LOCATION; PROVIDE NEW CONDUIT/RISERS AS REQUIRED. COORDINATE CONDUCTOR SIZE, NEUTRAL, AND GROUNDING WITH EXISTING SERVICE EQUIPMENT AND UTILITY REQUIREMENTS.
4. CONTRACTOR SHALL COORDINATE WITH LOCAL ELECTRICAL UTILITY COMPANY TO PROVIDE NEW OVERHEAD CABLING FROM THE NEW ELECTRICAL UTILITY DIP POLE TO ELECTRICAL UTILITY TRANSFORMER POLE.
5. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2" CONDUIT FROM NEW TRANSFORMER DISCONNECT SWITCH AT CONCESSIONS BUILDING TO NEW ELECTRICAL POWER PULL BOX. REFERENCE SHEET E603 FOR CONDUCTOR REQUIREMENTS.
6. PROVIDE 24" X 12" X 12" NEMA 3R WALL-MOUNTED JUNCTION BOX WITH LOCKABLE HINGED COVER. MOUNT SECURELY TO STRUCTURE AT LOWEST ELEVATION PRACTICABLE. USE RAINTIGHT HUBS AND MAKE ALL WALL PENETRATIONS WATERTIGHT. SLEEVE AND FIRESTOP ALL PENETRATIONS AT RATED ASSEMBLIES. BOND JUNCTION BOX TO EQUIPMENT GROUND. PAINT JUNCTION BOX TO MATCH EXISTING BUILDING FINISHES.
7. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2" NEW ELECTRICAL POWER PULL BOX TO EXISTING MAIN PANEL. REFERENCE SHEET E603 FOR CONDUCTOR REQUIREMENTS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2" PVC CONDUIT FROM NEW FIBER JUNCTION BOX TO TELECOM BACKBOARD LOCATED IN CONCESSIONS BUILDING. INSTALL CONDUIT EMPTY WITH NYLON PULL STRING PROVIDED. TERMINATE CONDUIT WITH PVC BELL ENDS AT BOTH ENDS. FIELD COORDINATE TERMINATION IN CONCESSIONS BUILDING WITH BACKBOARD LOCATION.
9. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 12-STRAND (6 DUPLEX) LASER-OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE-TUBE, WATER-BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM NEW IT RACK IN THE CONCESSIONS BUILDING TO THE FIBER TERMINATION IN THE WEIGHT ROOM ROUTED THROUGH NEW FIBER PULL BOX. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK-MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF). CAP AND SEAL SPARE CONDUITS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2" CONDUIT SLEEVE FROM FIBER JUNCTION BOX THROUGH WALL AND TERMINATE WITH PVC BELL END 6" INSIDE THE BUILDING. MAKE ALL THROUGH-WALL PENETRATIONS WATERTIGHT.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

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SOFTBALL UPGRADES
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ELECTRICAL SITE PLAN - VHS BASEBALL

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REV 0	10.31.25	ISSUED FOR CONSTRUCTION
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E102

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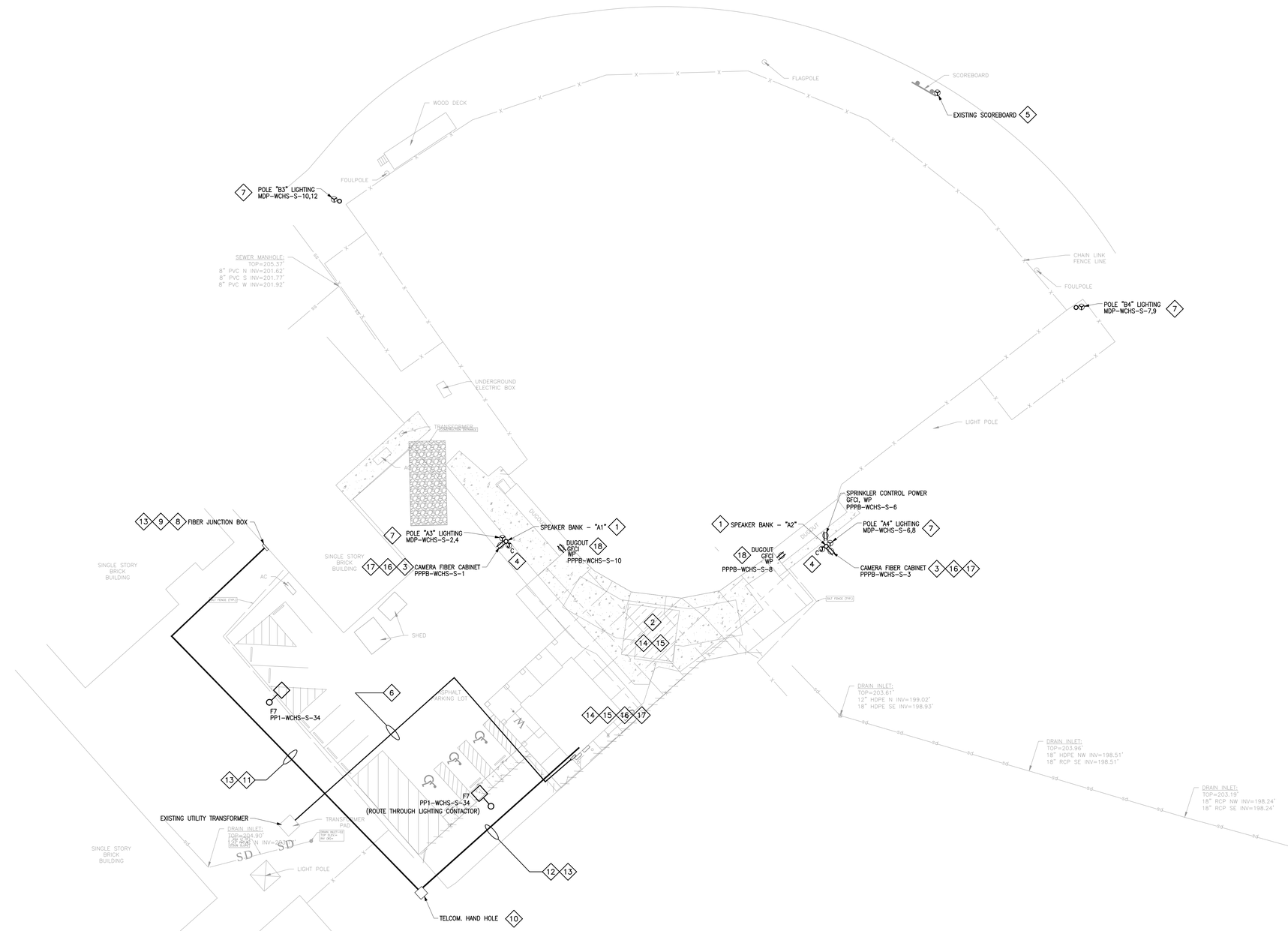

1 ELECTRICAL SITE PLAN - WCHS SOFTBALL
SCALE: 1" = 20'-0"

DRAWING E103 NOTES

1. REFERENCE SPECIFICATION SECTION 265668 – ATHLETIC FIELD LIGHTING FOR FIXTURE TYPES, POLES/FOUNDATIONS, WIRING METHODS, CONTROLS/INTERFACES, GROUNDING/BONDING, PHOTOMETRIC PERFORMANCE, SUBMITTALS, FIELD AIMING/FOCUSING, COMMISSIONING, AND WARRANTY REQUIREMENTS. COORDINATE INSTALLATION WITH VENDOR'S STAMPED SHOP DRAWINGS AND APPROVED PHOTOMETRICS.
2. POLE FOUNDATIONS, ANCHOR BOLT LAYOUTS, AND REACTION LOADS SHALL BE PROVIDED BY THE ATHLETIC LIGHTING MANUFACTURER, SIGNED AND SEALED BY A MISSISSIPPI–LICENSED PROFESSIONAL ENGINEER, BASED ON PROJECT GEOTECHNICAL PARAMETERS. SUBMIT STAMPED FOUNDATION DETAILS/CALCULATIONS, ANCHOR BOLT TEMPLATES, AND SETTING DRAWINGS FOR REVIEW PRIOR TO EXCAVATION. COORDINATE POLE LOCATIONS, OFFSETS, FINISH GRADES, AND CONDUIT ENTRIES WITH CIVIL/STRUCTURAL; FIELD–VERIFY BEFORE EXCAVATION.
3. ALL POLES SHALL BE INSTALLED PLUMB WITH FINAL AIMING PER MANUFACTURER'S SIGNED AND SEALED PHOTOMETRICS AND AIMING DIAGRAMS. PROVIDE FINAL AIMING REPORTS AND AS–BUILTS.
4. PROVIDE A GROUNDING ELECTRODE SYSTEM AT EACH POLE PER NEC AND MANUFACTURER REQUIREMENTS. BOND POLE, LUMINAIRES, CAMERA ENCLOSURES, HANDHOLES, AND ALL METALLIC COMPONENTS.
5. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC WITH LONG–RADIUS SWEEPS. PROVIDE TRACER WIRE, WARNING TAPE, AND 36–INCH MINIMUM COVER UNLESS NOTED OTHERWISE.
6. NO SPLICING OF FEEDERS OR LIGHTING CIRCUITS IS PERMITTED WITHIN POLES OR BELOW GRADE EXCEPT THROUGH LISTED EQUIPMENT AND WHEN SHOWN ON THE DRAWINGS.
7. SEAL ALL CONDUIT ENTRIES TO POLES, JUNCTION BOXES, AND EQUIPMENT CABINETS WITH LISTED SEALANTS/PLUGS TO PREVENT MOISTURE, GAS, AND INSECT INTRUSION.
8. PROTECT EXISTING SCOREBOARD CIRCUITS, IRRIGATION, COMMUNICATIONS, AND UNDERGROUND UTILITIES DURING CONSTRUCTION. REPAIR DAMAGE TO EQUAL OR BETTER THAN ORIGINAL CONDITION AT NO COST TO OWNER.
9. PROVIDE OSHA–COMPLIANT TRENCHING/SHORING, BARRICADES, AND SITE SAFETY. BACKFILL WITH ENGINEERED FILL, COMPACT, AND RESTORE TURF/SURFACES TO MATCH ADJACENT CONDITIONS.
10. FINAL COMMISSIONING SHALL BE PERFORMED WITH OWNER, ENGINEER, AND MANUFACTURER REPRESENTATIVE PRESENT. VERIFY OPERATION, CONTROLS, AND AIMING; RECORD LIGHT LEVELS AND TURN OVER AS–BUILTS AND COMMISSIONING REPORTS.
11. ALL JUNCTION BOXES DENOTED WITH THE LETTER "C" ARE FOR SECURITY CAMERAS (CAMERAS BY OWNER). CONTRACTOR SHALL PROVIDE AND INSTALL A 6–STRAND SINGLE–MODE FIBER–OPTIC CABLE IN 1" CONDUIT FROM THE I.T. RACK IN THE CONCESSIONS BUILDING TO EACH LIGHT POLE, AND TERMINATE IN A NEW EXTERIOR CAMERA FIBER CABINET AT THE BASE OF EACH POLE. SEE SHEET E502 FOR CABINET DETAILS. CAMERA POLE JUNCTION BOXES SHALL BE MOUNTED TO EACH LIGHT POLE AT THE HEIGHT/LOCATION SHOWN AND SHALL BE HOFFMAN 8"X6"X4" (864) NEMA 3R GASKETED STEEL J–BOX (OR EQUAL) WITH DRIP SHIELD AND WEATHERTIGHT HUBS; USE 304 STAINLESS OR HOT–DIP GALVANIZED FASTENERS AND PROVIDE ISOLATION WASHERS TO AVOID DISSIMILAR–METAL CORROSION. BOND THE BOX TO THE POLE GROUND. PROVIDE AND INSTALL A NEMA 5–20R RECEPTACLE INSIDE THE CAMERA FIBER CABINET (WEATHER–RESISTANT, TAMPER–RESISTANT, WITH IN–USE COVER). PROVIDE AND INSTALL OUTDOOR–RATED CAT 6 FROM THE CAMERA J–BOX TO THE CAMERA FIBER CABINET IN WEATHERPROOF RACEWAY; LABEL BOTH ENDS. SEAL ALL PENETRATIONS WEATHER–TIGHT; MAINTAIN SEPARATION FROM FIELD–LIGHTING CIRCUITS. TEST AND CERTIFY FIBER AND COPPER CABLING PER SPECIFICATIONS.

DRAWING E103 SPECIFIC NOTES

1. SPEAKER BANKS SHALL BE MOUNTED TO THE NEW LIGHT POLES. SEE SHEET E611 FOR MORE DETAILS.
2. CONTRACTOR SHALL PROVIDE A #4/0 BARE COPPER CONDUCTOR FROM BLEACHERS TO GROUNDING ELECTRODE SYSTEM. CONTRACTOR SHALL BOND THE BLEACHERS IN A MINIMUM OF 6 PLACES.
3. CONTRACTOR SHALL MOUNT RECEPTACLE INSIDE CAMERA FIBER CABINET. SEE SHEET E502 FOR DETAILS.
4. CONTRACTOR SHALL PROVIDE AND INSTALL A HOFFMAN 864 BOX FOR CAMERA MOUNTING. MOUNT BOX 30"–0 AFG.
5. CONTRACTOR SHALL LOCATE/INTERCEPT THE EXISTING SCOREBOARD POWER AND CONTROL CONDUIT AND EXTEND IT TO THE NEW PRESS BOX. PROVIDE A NEW BRANCH CIRCUIT FROM PANEL PPPB–WCHS–S TO THE EXISTING SCOREBOARD USING #8 AWG CU THWN–2 (VOLTAGE–DROP BASIS). FIELD–COORDINATE FINAL TERMINATION WITH THE SCOREBOARD; PROVIDE BREAKER/DISCONNECT AS SCHEDULED. REMOVE OR CAP/SEAL ANY ABANDONED FEEDS WATERTIGHT. PROVIDE CONTROL WIRING AS REQUIRED.
6. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 4" CONDUIT FROM EXISTING UTILITY TRANSFORMER TO NEW PANEL MDP–WCHS–S LOCATED IN THE CONCESSIONS BUILDING. REFERENCE SHEET E602 FOR SERVICE ENTRANCE CONDUCTOR REQUIREMENTS. COORDINATE CONDUIT ENTRY AND CONDUCTOR TERMINATIONS AT TRANSFORMER WITH UTILITY.
7. PANELBOARD MDP–WCHS–S IS LOCATED IN THE CONCESSIONS BUILDING.
8. PROVIDE 24" X 12" X 12" NEMA 3R WALL–MOUNTED JUNCTION BOX WITH LOCKABLE HINGED COVER. MOUNT SECURELY TO STRUCTURE AT AN ELEVATION THAT ALLOWS CONDUITS TO ENTER THE BUILDING ABOVE THE LAY–IN CEILING. USE RAINTIGHT HUBS; MAKE ALL WALL PENETRATIONS WATERTIGHT. SLEEVE AND FIRESTOP IF PENETRATING RATED ASSEMBLIES. BOND BOX TO EQUIPMENT GROUND.
9. PROVIDE AND INSTALL TWO (2) 2–INCH CONDUITS FROM THE FIBER JUNCTION BOX TO THE IT RACK IN THE EXISTING SINGLE–STORY BRICK BUILDING. ROUTE ABOVE THE LAY–IN CEILING, CONCEALED WHERE PRACTICABLE. PROVIDE NYLON PULL STRINGS IN EACH CONDUIT; CAP AND LABEL BOTH ENDS. LIMIT TOTAL BENDS TO 360 DEGREES; USE LONG–RADIUS SWEEPS. SLEEVE AND FIRESTOP AT ALL WALL/FLOOR PENETRATIONS. MAINTAIN SEPARATION FROM POWER CONDUCTORS PER CODE. SUPPORT PER NEC/NECA STANDARDS.
10. CONTRACTOR SHALL PROVIDE AND INSTALL A 4–FOOT BY 4–FOOT BY 4–FOOT PRECASE CONCRETE HAND HOLE WITH INTEGRAL FLOOR. HAND HOLE SHALL BE TRAFFIC–RATED PER ASSHTO H–20 AND FURNISHED WITH A LOCKABLE, NON–SKID COVER LABELED "TELECOM". PROVIDE CONDUIT TERMINATIONS WITH BELL ENDS AND PULL STRINGS IN ALL EMPTY CONDUITS. REFER TO CIVIL DRAWINGS FOR STRUCTURAL AND DRAINAGE REQUIREMENTS AND TO ELECTRICAL SHEET E503 FOR HAND HOLE ELECTRICAL DETAILS.
11. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) 2–INCH PVC CONDUITS FROM NEW FIBER JUNCTION BOX TO NEW TELECOM. HAND HOLE. CONDUITS SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS.
12. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) 2–INCH PVC CONDUITS FROM NEW TELECOM. HAND HOLE TO NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING. CONDUITS SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
13. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 12–STRAND (6 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM EXISTING IT RACK IN THE SINGLE STORY BRICK BUILDING TO NEW IT RACK IN THE CONCESSIONS BUILDING ROUTED THROUGH NEW FIBER PULL BOX, AND NEW TELECOM. HAND HOLE. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF). CAP AND SEAL SPARE CONDUITS.
14. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 2–INCH PVC CONDUIT FROM NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING TO NEW TELECOM. RACK LOCATED IN PRESS BOX. CONDUIT SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
15. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 6–STRAND (3 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM NEW IT RACK IN THE CONCESSIONS TO NEW IT RACK IN THE PRESS BOX. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF).
16. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 1–INCH PVC CONDUIT FROM NEW TELECOM. BACKBOARD LOCATED IN CONCESSIONS BUILDING TO NEW CAMERA FIBER CABINET AT LIGHT POLE. CONDUIT SHALL BE INSTALLED EMPTY, WITH NYLON PULL STRINGS PROVIDED. TERMINATE ALL CONDUITS WITH PVC BELL ENDS AT BOTH ENDS. COORDINATE EXACT STUB–UP LOCATION IN CONCESSIONS BUILDING WITH LOCATION OF TELECOM. BACKBOARD PRIOR TO ROUGH IN.
17. CONTRACTOR SHALL PROVIDE AND INSTALL ONE (1) 6–STRAND (3 DUPLEX) LASER–OPTIMIZED OM3 50/125 µm MULTIMODE FIBER OPTIC CABLE, INDOOR/OUTDOOR, DIELECTRIC, LOOSE–TUBE, WATER–BLOCKED, OFNR RATED (OFNP WHERE INSTALLED IN PLENUMS) FROM NEW IT RACK IN THE CONCESSIONS TO NEW CAMERA FIBER CABINET AT LIGHT POLE. NO FIELD SPLICE AT BUILDING ENTRANCE (CONTINUOUS CABLE). TERMINATE AT BOTH ENDS ON RACK–MOUNTED PATCH PANEL WITH LC DUPLEX ADAPTERS AND PROVIDE MATCHING LC DUPLEX PATCH CORDS. PROVIDE SERVICE LOOPS (MIN. 10 FT AT EACH HANDHOLE; MIN. 30 FT AT MDF).
18. CONTRACTOR SHALL PROVIDE UNISTRUT FOR MOUNTING DUGOUT RECEPTACLES. MOUNT RECEPTACLES 18" AFG. SUBMIT MOUNTING SHOP DRAWINGS FOR ENGINEERING APPROVAL PRIOR TO FABRICATION.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO REGISTERED PROFESSIONAL ENGINEER 21411 STATE OF MISSISSIPPI 12/8/25

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL SITE PLAN - WCHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.13.25	ISSUED FOR CONSTRUCTION
REV 1	12.02.25	ADDENDUM 02
REV 2	12.08.25	ADDENDUM 03

E103

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:14 PM BY: Kenneth Baverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbaverin
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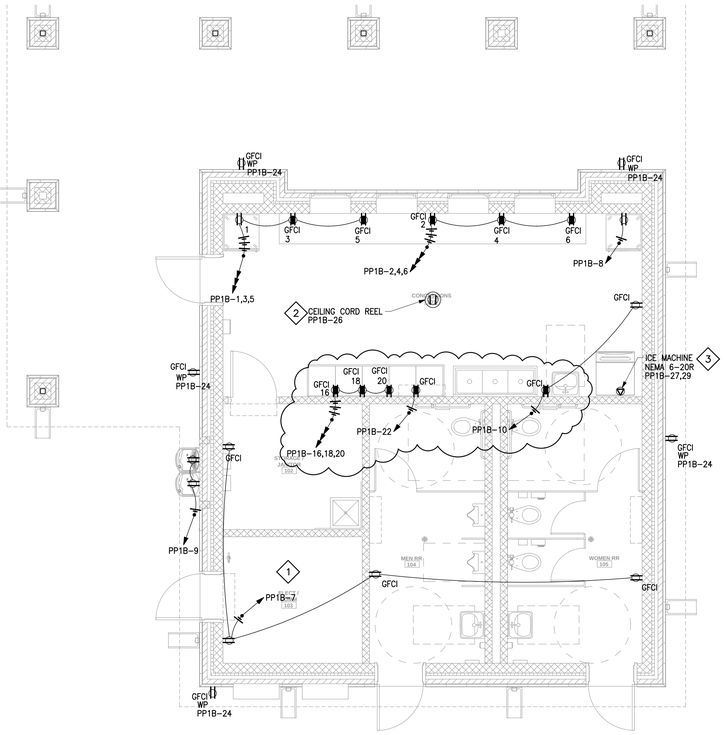
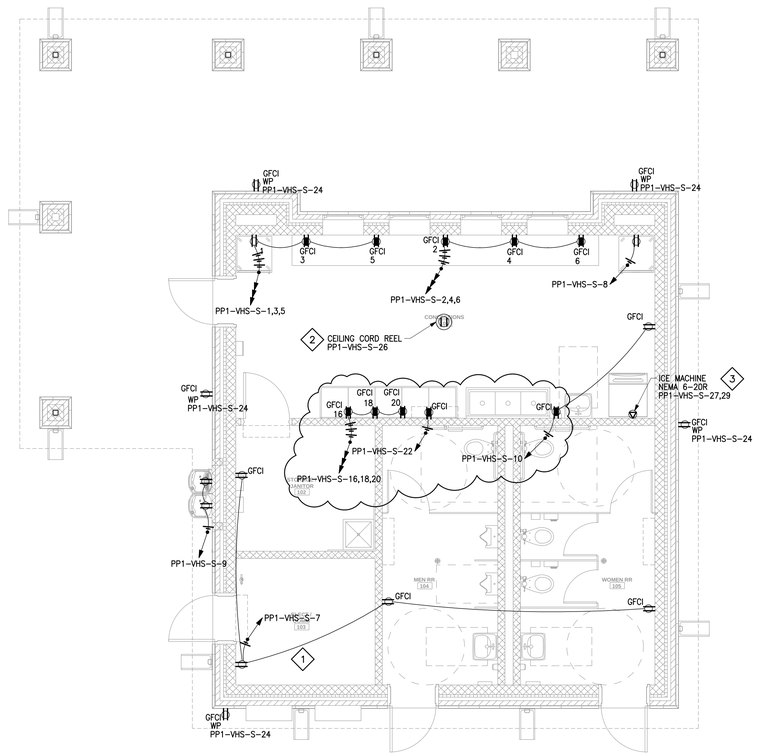
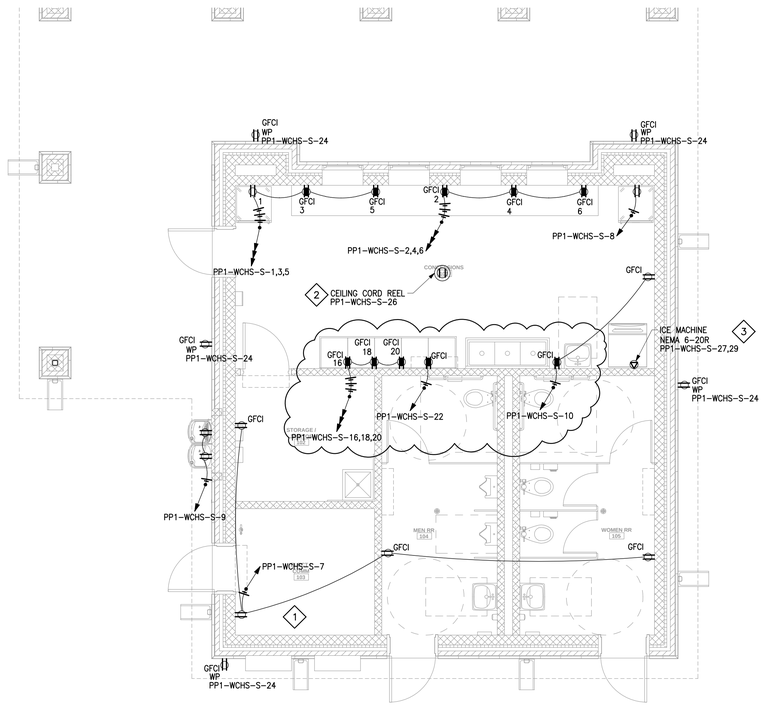


1 ELECTRICAL POWER PLAN - VHS BASEBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



2 ELECTRICAL POWER PLAN - VHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"



3 ELECTRICAL POWER PLAN - WCHS SOFTBALL CONCESSION STAND
SCALE: 1/4" = 1'-0"

DRAWING E111 NOTES

1. ALL RECEPTACLE BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM. WHERE CIRCUIT LENGTH EXCEEDS 100' TO THE FIRST DEVICE, INCREASE TO #10 AWG.
2. ALL RECEPTACLES SHALL BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. COORDINATE COUNTER RECEPTACLES WITH ARCHITECTURAL ELEVATIONS AND CASEWORK.
3. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METAL CONDUIT (IMC), SUITABLE FOR THE ENVIRONMENT.
4. COORDINATE ALL COUNTER RECEPTACLE HEIGHTS WITH ARCHITECTURAL MILLWORK PRIOR TO ROUGH-IN.
5. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.12.
6. DRINKING FOUNTAIN RECEPTACLES SHALL BE MOUNTED INSIDE THE ENCLOSURE. PROVIDE GFCI PROTECTION PER NEC 422.52.

DRAWING E111 SPECIFIC NOTES

1. SEE ENLARGED ELECTRICAL/COMM ROOM 103 PLAN ON SHEET E201 FOR EQUIPMENT LAYOUT.
2. SEE SHEET E501 FOR CEILING CORD REEL DETAILS.
3. COORDINATE EXACT ELECTRICAL REQUIREMENTS FOR THE ICE MACHINE WITH THE MANUFACTURER PRIOR TO ROUGH-IN.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO REGISTERED PROFESSIONAL ENGINEER 12/8/25 E7411 STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL POWER PLANS - CONCESSION STANDS

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.02.25	ADDENDUM 02
REV 2	12.08.25	ADDENDUM 03

E111

VERIFY SCALES
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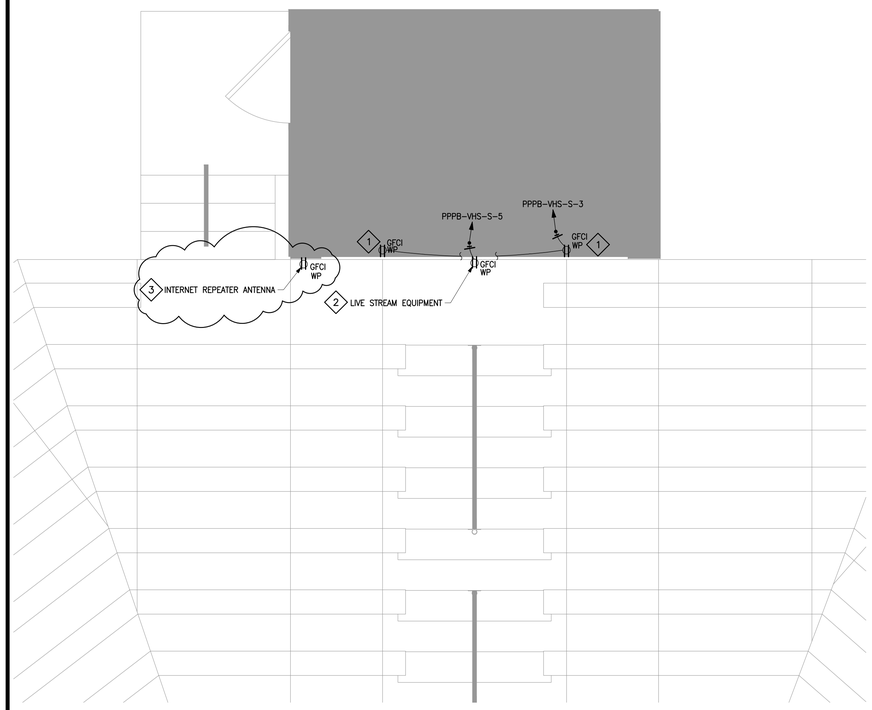
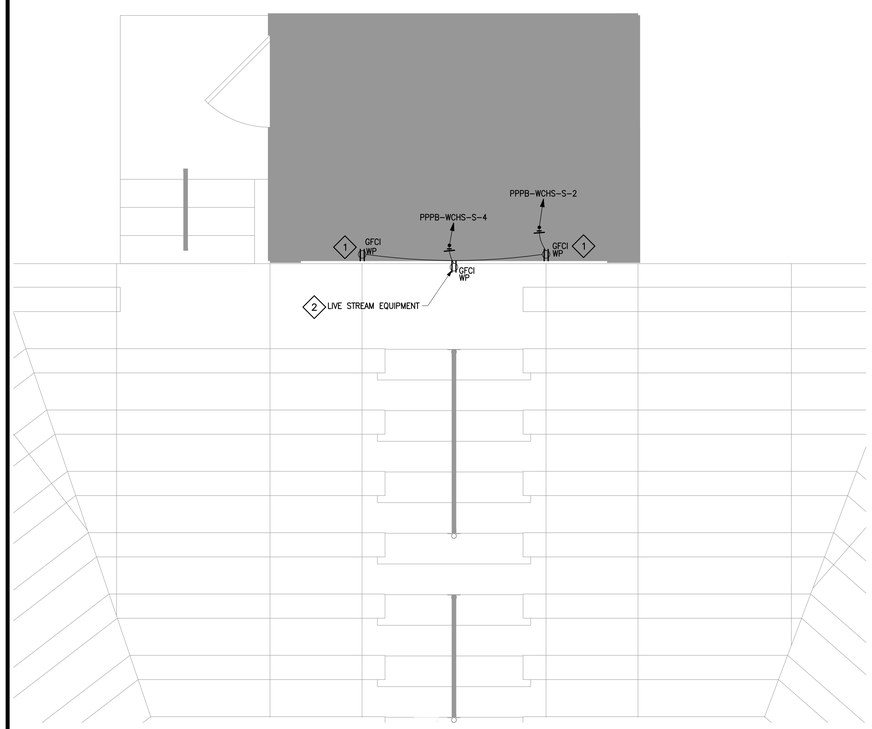


1 ELECTRICAL POWER PLAN - VHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"



1 ELECTRICAL POWER PLAN - WCHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"

DRAWING E112 NOTES

1. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE RIGID GALVANIZED STEEL.
2. PROVIDE ALL EMPTY CONDUITS WITH NYLON PULL STRINGS AND CAP ALL ENDS UNTIL USE.
3. ALL RECEPTACLE BRANCH CIRCUITS SHALL BE #12 AWG. MINIMUM. WHERE CIRCUIT LENGTH EXCEEDS 100' TO THE FIRST DEVICE, INCREASE TO #10 AWG.
4. ALL RECEPTACLES SHALL BE MOUNTED 48" AFG UNLESS OTHERWISE NOTED.
5. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.12.

DRAWING E112 SPECIFIC NOTES

1. PROVIDE ROOF MOUNTED RECEPTACLE ON A FIXED GALVANIZED STANCHION INSTALLED THROUGH A LISTED ROOF PIPE BOOT. ROUTE CONDUIT UP THROUGH THE BOOT; SEAL AND FLASH PER MANUFACTURER'S INSTRUCTIONS – NO FIELD-CAULKED PENETRATIONS. SET RECEPTACLE 12" ABOVE ROOF (CENTERLINE). USE STAINLESS HARDWARE; BOND METALLIC COMPONENTS TO EQUIPMENT GROUND. INSTALL EXPANSION FITTING BELOW ROOF LINE. COORDINATE WITH ROOFING CONTRACTOR FOR FLASHING AND WARRANTY COMPLIANCE. LOCATE CLEAR OF DRAINS, SCUPPERS, AND WALK PATHS; PROVIDE GUARD IF SUBJECT TO DAMAGE.
2. MOUNT LIVE-STREAM EQUIPMENT RECEPTACLE ON THE EXTERIOR FRONT FACE OF THE PRESS BOX, ABOVE THE WINDOWS, LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULKED ONLY OPENINGS. USE STAINLESS HARDWARE; BOND BOX/EQUIPMENT GROUND PER NEC. MAINTAIN CLEARANCE FROM WINDOW OPERATION/TRIM AND CAMERA SIGHTLINES. LIVE STREAM EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
3. MOUNT INTERNET REPEATER ANTENNA RECEPTACLE ON THE EXTERIOR FRONT FACE OF THE PRESS BOX, ABOVE THE WINDOWS, LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULKED ONLY OPENINGS. USE STAINLESS HARDWARE; BOND BOX/EQUIPMENT GROUND PER NEC. ANTENNA EQUIPMENT PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO
REGISTERED PROFESSIONAL ENGINEER
12/8/25
#21411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL POWER PLAN
PRESS BOX ROOF

NO.	DATE	REVISION / SUBMITTAL
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E112

VERIFY SCALES
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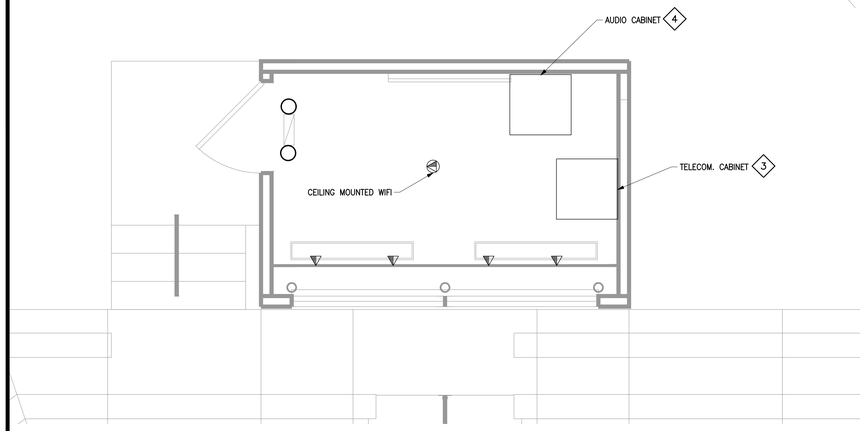
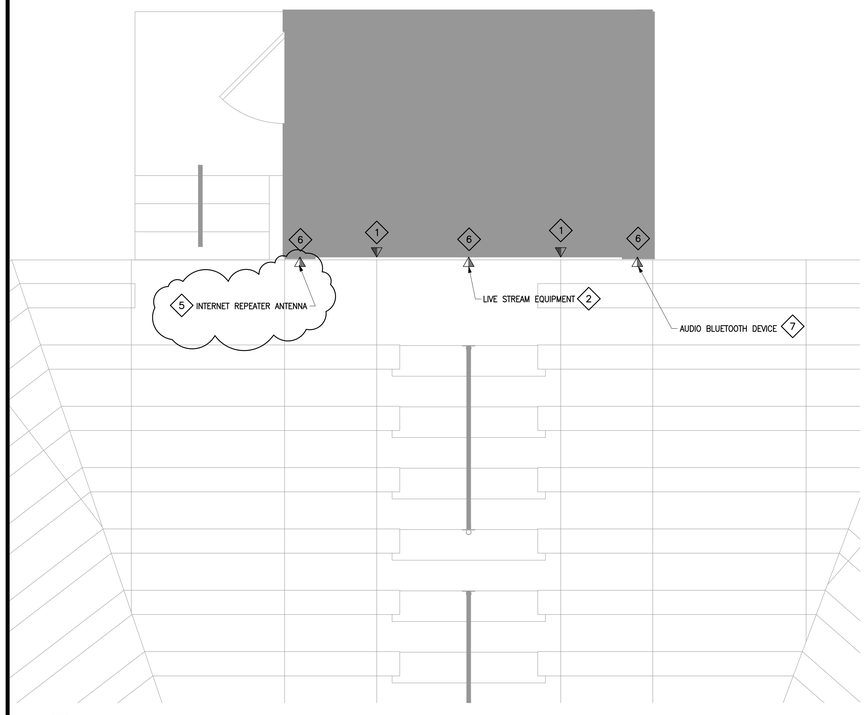


1 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS SOFTBALL PRESS BOX - FLOOR PLAN
SCALE: 1/2" = 1'-0"



2 ELECTRICAL SPECIAL SYSTEMS PLAN - VHS SOFTBALL PRESS BOX - ROOF PLAN
SCALE: 1/2" = 1'-0"

DRAWING E142 NOTES

1. **TELECOMMUNICATION CABLING:**
   - 1.1. CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) CAT6 PLENUM-RATED CABLES, BLUE JACKET, FROM EACH DATA OUTLET BACK TO THE TELECOMMUNICATIONS CABINET IN PRESS BOX.
   - 1.2. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS IN THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX. PROVIDE LABELING SCHEME COORDINATED WITH THE OWNER/ENGINEER.
   - 1.3. CABLING PATHWAYS:
     - 1.3.1. IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, ROUTE CABLE IN CONDUIT.
     - 1.3.2. IN ACCESSIBLE CEILINGS, CABLE MAY BE SUPPORTED ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL).
     - 1.3.3. ALL CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH MAXIMUM PERMANENT LENGTH OF 90 METERS (295 FT) FROM PATCH PANEL TO OUTLET.
2. **SECURITY CAMERA CABLING AND JUNCTION BOXES.**
   - 2.1. ALL JUNCTION BOXES LABELED "C" ARE DESIGNATED FOR SECURITY CAMERAS. PROVIDE A PATHWAY FROM EACH CAMERA JUNCTION BOX BACK TO THE TELECOMMUNICATIONS CABINET IN THE PRESS BOX.
   - 2.2. PULL TWO (2) CAT6 PLENUM-RATED CABLES, GREEN JACKET, TO EACH CAMERA LOCATION. TERMINATE ALL CABLES ON RACK-MOUNTED PATCH PANELS; COORDINATE LABELING SCHEME WITH OWNER/ENGINEER.
   - 2.3. MOUNT CAMERA JUNCTION BOXES FLUSH WITH OR JUST BELOW THE CEILING AS REQUIRED BY DEVICE TYPE. COORDINATE EXACT LOCATIONS AND ORIENTATIONS WITH OWNER/ENGINEER PRIOR TO ROUGH-IN.
   - 2.4. FOR EXTERIOR CAMERAS, COORDINATE MOUNTING HEIGHTS (TYPICALLY 12'-16' AFG) WITH THE ENGINEER. MOUNT TO FACE OF GRANDSTAND. PROVIDE NEMA 4 RATED BOXES AND FITTINGS SUITABLE FOR THE ENVIRONMENT.
   - 2.5. CABLING PATHWAYS: IN ACCESSIBLE CEILINGS, CONTRACTOR MAY ROUTE CABLE ON J-HOOKS (SPACED AT ≤ 5FT AND SIZED FOR ≤ 60% FILL). IN INACCESSIBLE CEILINGS OR WHERE EXPOSED, PROVIDE 3/4" CONDUIT.
   - 2.6. ALL CAMERA CABLING SHALL COMPLY WITH TIA/EIA-568 STANDARDS, WITH A MAXIMUM PERMANENT LENGTH OF 90 METERS (295FT) FROM PATCH PANEL TO DEVICE.
3. CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE A CONTINUOUS NYLON/POLYESTER PULL STRING (MINIMUM 200 LB TENSILE STRENGTH) IN ALL EMPTY CONDUITS AND RACEWAYS. PULL STRINGS SHALL BE TIED OFF AND LABELED AT BOTH ENDS FOR FUTURE USE.

DRAWING E142 SPECIFIC NOTES

1. ROOF DATA OUTLET (PIPE-BOOT MOUNT): PROVIDE ROOF-MOUNTED DATA OUTLET ON A FIXED GALVANIZED STANCHION (MIN. 1-1/2" RGS) INSTALLED THROUGH A LISTED ROOF PIPE BOOT; FLASH AND SEAL STRICTLY PER MANUFACTURER – NO FIELD-CAULKED OR PITCH-POCKET PENETRATIONS. SET OUTLET 12" A.F.R. (CENTERLINE) IN A NEMA 4X, UV-RATED WEATHERPROOF BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S). SLEEVE CONDUIT THROUGH ROOF WITH RGS; PROVIDE A LISTED EXPANSION/DEFLECTION FITTING BELOW THE ROOF LINE. USE STAINLESS STEEL HARDWARE; BOND ALL METALLIC COMPONENTS TO THE EQUIPMENT GROUND. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO ROOF-EXPOSED CABLE, NO SPLICES IN ROOF ASSEMBLY) BACK TO THE PRESS BOX TELECOM CABINET. SURGE SUPPRESSION: PROVIDE AN OUTDOOR-RATED ETHERNET SURGE PROTECTOR (PoE-COMPATIBLE WHERE APPLICABLE) AT THE ROOF OUTLET OR JUST INSIDE THE PENETRATION; BOND PER MANUFACTURER'S INSTRUCTIONS AND TERMINATE TO THE SAME GROUNDING POINT AS THE STANCHION. COORDINATE ALL WORK WITH THE PRESS BOX MANUFACTURER FOR FLASHING AND WARRANTY COMPLIANCE; LOCATE CLEAR OF DRAINS, SCUPPERS, AND WALK PATHS; PROVIDE A GUARD IF SUBJECT TO DAMAGE. CERTIFY CAT6 PERMANENT LINK PERFORMANCE.
2. LIVE-STREAM DATA OUTLET (PRESS BOX FRONT): MOUNT WEATHERPROOF DATA OUTLET ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM AND CAMERA SIGHTLINES. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE CAT6 IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY CAT6 PERMANENT LINK PERFORMANCE. LIVE-STREAM EQUIPMENT BY OWNER.
3. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT TELECOMMUNICATIONS CABINET, 18U, 24-INCH DEPTH, VENTED SIDES/DOOR WITH LOCK. MOUNT TO UNISTRUT BACKING; VERIFY WALL STRUCTURE SUPPORTS FULLY-LOADED WEIGHT. PROVIDE (2) DEDICATED 120V, 20A CIRCUITS WITH SURGE PROTECTION AND (2) DUPLEX RECEPTACLES INSIDE THE CABINET (FEED FROM PRESS BOX PANEL). INCLUDE HORIZONTAL CABLE MANAGEMENT, FIBER LIU, AND FAN KIT AS REQUIRED BY HEAT LOAD. COORDINATE EXACT LOCATION, ELEVATION, AND SWING CLEARANCES WITH ENGINEER AND OWNER PRIOR TO ROUGH-IN.
4. PROVIDE ONE (1) 19-INCH WALL-MOUNT SWING-OUT AUDIO EQUIPMENT CABINET, 22U MINIMUM, 24-INCH DEPTH, WITH FRONT/REAR RAILS, PERFORATED LOCKING FRONT DOOR, VENTED SIDES, AND REAR HINGE FOR SERVICE ACCESS. CABINET STATIC LOAD RATING ≥ 300 LB (VERIFY EQUIPMENT WEIGHT + 25% FUTURE). MOUNT TO UNISTRUT BACKING; USE ALL MANUFACTURER MOUNTING HOLES. WHERE LOADED WEIGHT OR WALL STRUCTURE REQUIRES, PROVIDE A FLOOR SUPPORT LEDGE/LEG KIT UNDER CABINET.
   1. POWER: PROVIDE CIRCUITS AS REQUIRED AND SHOWN ON AUDIO RISER DIAGRAM (SHEET E611). INCLUDE SURGE PROTECTION. INSTALL RACK POWER SEQUENCER; PROGRAM AMPLIFIERS LAST ON / FIRST OFF. PROVIDE VERTICAL PDUS BOTH SIDES.
   2. INCLUDE A THERMOSTAT-CONTROLLED FAN KIT (MIN. 200 – 400 CFM) IF CALCULATED CABINET HEAT LOAD EXCEEDS 200 W OR IF CABINET TEMPERATURE EXCEEDS ROOM TEMPERATURE BY MORE THAN 10 °F DURING COMMISSIONING. PROVIDE PERFORATED DOOR/PANELS AND MAINTAIN CLEAR AIR PATHS. FEED FAN KIT FROM PRESS BOX ELECTRICAL PANEL.
   3. GROUNDING/BONDING: BOND RACK TO EQUIPMENT GROUNDING CONDUCTOR; PROVIDE GROUND BUS/STRAP INSIDE CABINET. COORDINATE SINGLE-POINT AUDIO GROUND REFERENCE PER MANUFACTURER.
   4. COORDINATION/CLEARANCES: VERIFY SWING CLEARANCE AND SERVICE ACCESS; TARGET 36" FRONT AND 12" – 18" SIDE WORKING CLEARANCE WHERE ARCHITECTURALLY FEASIBLE. COORDINATE MOUNTING HEIGHT (~CENTERLINE 60" A.F.F.), DOOR SWING, AND ANY ADJACENT MILLWORK/GLAZING. CONFIRM EQUIPMENT U-COUNTS, DEPTHS, WEIGHTS, VOLTAGE, AND HEAT LOAD PRIOR TO ROUGH-IN.
   5. LABELING/COMMISSIONING: PROVIDE PERMANENT MACHINE-PRINTED LABELS FOR RACK, CIRCUITS, PATCH POINTS, AND DEVICES; SUBMIT LAYOUT (U-MAP), POWER SCHEDULE, AND AIRFLOW PLAN WITH SHOP DRAWINGS. RESERVE MIN. 20% FREE U-SPACE FOR FUTURE EXPANSION.
5. INTERNET REPEATER ANTENNA (PRESS BOX FRONT): MOUNT WEATHERPROOF JUNCTION BOX ON THE EXTERIOR FRONT FACE ABOVE WINDOWS; LOCATION/ELEVATION AS DIRECTED BY ENGINEER AND OWNER PRIOR TO ROUGH-IN. PROVIDE NEMA 4X, UV-RATED BOX WITH GASKETED IN-USE COVER AND DUST-CAPPED RJ45 JACK(S); USE STAINLESS HARDWARE AND PROVIDE DRIP LOOP. ROUTE CONDUIT WITHIN WALL CAVITY; PROVIDE FACTORY-SLEEVED/GASKETED PENETRATIONS AND FLASHING THROUGH METAL PANEL/WEATHER BARRIER – NO FIELD-CAULK-ONLY OPENINGS; COORDINATE WITH PRESS BOX MANUFACTURER TO MAINTAIN WARRANTY. BOND BOX AND ANY METALLIC RACEWAY TO EQUIPMENT GROUND PER NEC; MAINTAIN REQUIRED CLEARANCES FROM OPERABLE WINDOW HARDWARE/TRIM. PROVIDE OUTDOOR-RATED, POE-COMPATIBLE ETHERNET SURGE PROTECTOR AT THE OUTLET OR JUST INSIDE THE PENETRATION; BOND SURGE DEVICE PER MANUFACTURER TO THE SAME GROUNDING POINT. ROUTE FIBER 6-STRAND (3-DUPLEX) MULTI-MODE IN CONTINUOUS RACEWAY (NO EXPOSED CABLE, NO SPLICES) BACK TO THE PRESS BOX TELECOM CABINET; LABEL BOTH ENDS AND TEST/CERTIFY FIBER PERMANENT LINK PERFORMANCE. INTERNET REPEATER ANTENNA EQUIPMENT PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
6. SPEAKER BANK-A3 SHALL BE MOUNTED ATOP THE PRESS BOX IN RIGHT/CENTER/LEFT POSITIONS. MOUNT ON ENGINEER-APPROVED BRACKETS WITH VIBRATION ISOLATION; ANCHOR TO STRUCTURE. COORDINATE HEIGHT/LOCATION WITH ARCHITECT/ROOFING TO MAINTAIN WARRANTY. ROUTE CABLING WITHIN WALL/ROOF CAVITY; PROVIDE SLEEVED, GASKETED, AND SEALED PENETRATIONS – NO FIELD-CAULK-ONLY OPENINGS. USE HOT-DIP GALVANIZED OR ZINC-PLATED STEEL (NO STAINLESS REQUIRED) HARDWARE; WEATHERPROOF ALL EXPOSED CONNECTIONS; BOND/GROUND PER NEC. AIM/TILT PER SHEET E611.
7. AV BLUETOOTH DEVICE LOCATION. SEE SHEET E611 FOR DETAILS.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO — REGISTERED PROFESSIONAL ENGINEER — 12/8/25 — E7411 — STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL SPECIAL SYSTEMS PLAN
PRESS BOX - VHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E142

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:15 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
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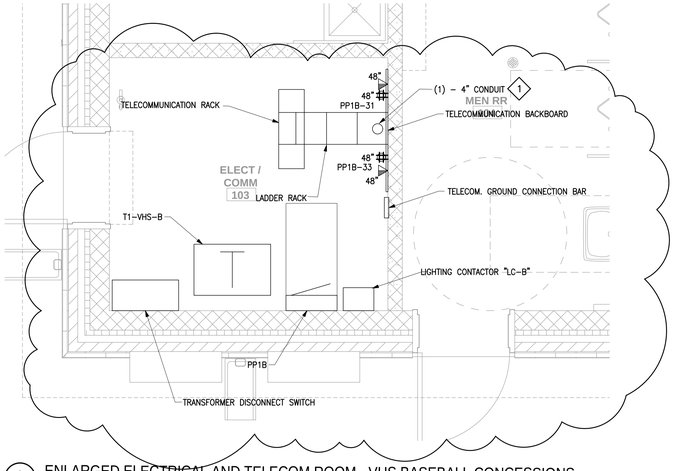
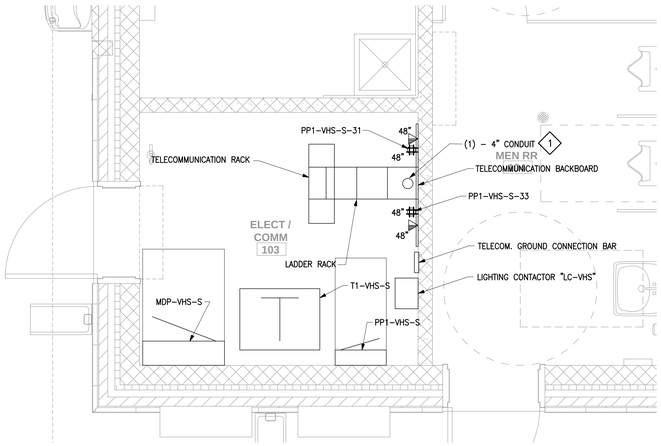
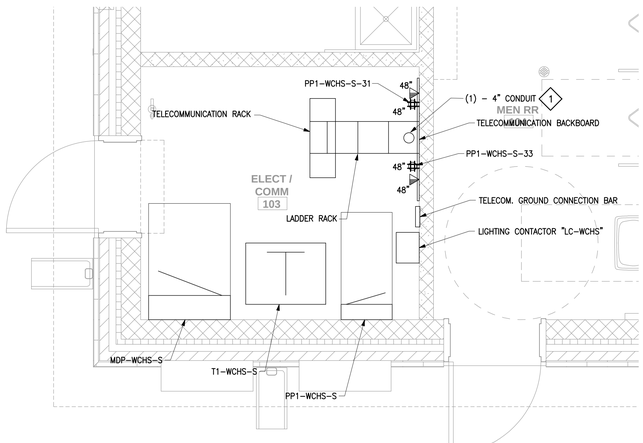


1 ENLARGED ELECTRICAL AND TELECOM ROOM - VHS BASEBALL CONCESSIONS
SCALE: 1/2" = 1'-0"



2 ENLARGED ELECTRICAL AND TELECOM ROOM - VHS SOFTBALL CONCESSIONS
SCALE: 1/2" = 1'-0"



3 ENLARGED ELECTRICAL AND TELECOM ROOM - WCHS SOFTBALL CONCESSIONS
SCALE: 1/2" = 1'-0"

DRAWING E201 NOTES

1. MAINTAIN WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT PER NEC 110.26. PROVIDE DEDICATED ELECTRICAL EQUIPMENT SPACE PER NEC 110.32: THE WIDTH AND DEPTH OF THE EQUIPMENT FOOTPRINT EXTENDING FROM THE FLOOR TO THE STRUCTURAL CEILING OR 6FT ABOVE EQUIPMENT (WHICHEVER IS LOWER) SHALL BE KEPT FREE OF PIPING, DUCTWORK, AND FOREIGN SYSTEMS. WHERE SPRINKLERS ARE PRESENT, PROVIDE DRIP SHIELDS; NO SPRINKLER PIPING OR HEADS IN THE DEDICATED SPACE.
2. NO DUCTWORK, PIPING, CABLE TRAY, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ROUTED ABOVE PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, OR SIMILAR ELECTRICAL EQUIPMENT WITHIN THE DEDICATED SPACE DESCRIBED ABOVE. MAINTAIN CLEAR WORKING ACCESS IN FRONT OF TELECOMMUNICATIONS BACKBOARDS PER TIA PRACTICE.
3. FEED–THROUGH LUG PANELBOARDS ARE NOT PERMITTED. PROVIDE MAIN–LUGS–ONLY WITH PROPER DISTRIBUTION, OR FACTORY MAIN–BREAKER PANELBOARDS AS INDICATED.
4. WHERE CONDUIT EXCEEDS THE EQUIPMENT'S TOP/BOTTOM ENTRY CAPACITY OR WOULD VIOLATE BENDING SPACE, PROVIDE LISTED METAL WIREWAY SIZED AND INSTALLED PER NEC 376 (INCLUDE FILL, COVER, AND SUPPORT REQUIREMENTS). DO NOT USE WIREWAY TO CIRCUMVENT REQUIRED WIRE–BENDING SPACE AT TERMINALS (SEE NEC 312.6/408.3)
5. PROVIDE ARC–FLASH HAZARD WARNING LABELS ON ALL SWITCHBOARDS AND PANELBOARDS PER NEC 110.16(B) AND NFPA 70E. PERFORM SHORT–CIRCUIT, PROTECTIVE DEVICE COORDINATION, AND ARC–FLASH STUDIES PER SPECIFICATIONS. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY TO OBTAIN AVAILABLE FAULT CURRENT DATA REQUIRED FOR THE STUDY AND LABELING.
6. BACK–FED MAIN BREAKERS IN BRANCH SPACES ARE NOT PERMITTED. PROVIDE EQUIPMENT WITH FACTORY MAIN DEVICE AS INDICATED.
7. REFER TO SHEET E671 FOR TELECOMMUNICATIONS/LOW–VOLTAGE RISER DIAGRAM AND COORDINATE TERMINATIONS AND PATHWAY CAPACITIES ACCORDINGLY.

8. IDF RACK:
- 8.1. PROVIDE ONE (1) 19", 2–POST, EIA–310 COMPLIANT OPEN RACK, FLOOR–MOUNTED AND ANCHORED TO SLAB.
- 8.2. RACK HEIGHT 42U. CHANNEL DEPTH: 10 IN.
- 8.3. SIZE RACK CAPACITY FOR ALL TELECOM AND CCTV TERMINATIONS SERVED BY THE IDF WITH 25% MINIMUM SPARE FOR FUTURE GROWTH.
- 8.4. PROVIDE HORIZONTAL CABLE MANAGERS BETWEEN PATCH PANELS AND SWITCHES AS REQUIRED.
- 8.5. PROVIDE FULL HEIGHT VERTICAL CABLE MANAGERS ON BOTH SIDES OF RACK.
- 8.6. MAINTAIN A MINIMUM OF 36" CLEAR WORKING SPACE AT THE FRONT OF RACK; MAINTAIN REAR CLEARANCE PER MANUFACTURER (TYPICAL ≥ 12") AND PROJECT REQUIREMENTS.

9. OVERHEAD LADDER RACK:
- 9.1. PROVIDE LADDER RACK (CABLE RUNWAY) WALL–MOUNTED AT TOP OF RACK, EXTENDING TO ROOM ENTRY POINTS AND SLEEVES.
- 9.2. PROVIDE VERTICAL DROP SECTIONS FROM LADDER RACK INTO RACK.
- 9.3. PROVIDE J–HOOKS OR CONDUIT FOR PATHWAYS FROM CORRIDORS TO LADDER RACK.

10. BACKBOARD:
- 10.1. PROVIDE AN 8' X 4' X 3/4" FIRE–RETARDANT PLYWOOD BACKBOARD, PAINTED WHITE.

11. GROUNDING/BONDING:
- 11.1. PROVIDE A COPPER GROUND CONNECTION BAR IN EACH IDF. BOND WITH #4/0 BARE COPPER BACK TO THE BUILDING GROUNDING ELECTRODE SYSTEM.
- 11.2. BOND ALL RACKS, LADDER RACK, BACKBOARDS, AND METAL ENCLOSURES TO THE GROUND BAR.

12. TERMINATIONS:
- 12.1. FIBER BACKBONE (MDF TO IDF): TERMINATE IN A RACK–MOUNTED LIU IN THE IDF; 50/125 µM MULTIMODE (OM3 OR OM4) WITH LC/UPC DUPLEX ADAPTERS; MAKE TERMINATIONS VIA A FUSION–SPLICED LC/UPC PIGTAILS (NO FIELD–POLISHED CONNECTORS); LABEL PER DIVISION 27; BOND LIU TO IDF GROUND BAR; PROVIDE A MINIMUM 10 FT SERVICE LOOP AND DUST CAPS; PROTECT CONDUIT ENTRY WITH BUSHINGS.
- 12.2. TELECOM (DATA) CABLING SHALL TERMINATE ON PATCH PANELS IN THE RACK AND BE PATCHED TO PoE SWITCHES. PROVIDE SURGE PROTECTION AT BUILDING ENTRY/IDF AS REQUIRED.
- 12.1. CCTV AND CABLING SHALL TERMINATE ON PATCH PANELS IN THE RACK AND PATCH TO PoE SWITCHES. PROVIDE SURGE PROTECTION AT BUILDING ENTRY/IDF AS REQUIRED.

13. TELECOM OUTLET:
- 13.1. PROVIDE (2) CAT6 TELECOM OUTLETS AT THE COMMUNICATION BACKBOARD FOR PROGRAMMING/SERVICE. TERMINATE ON PATCH PANEL. LABEL "COMMUNICATION BACKBOARD – DATA".

14. RACK POWER:
- 14.1. PROVIDE (2)–DEDICATED 20A, 120V CIRCUITS WITH QUAD RECEPTACLES MOUNTED ON THE RACK FOR CONNECTION OF OWNER–PROVIDED UPS AND NETWORK SWITCHES.
- 14.2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL RACK–MOUNTED PDUs, SURGE PROTECTION, GROUNDING, AND POWER DISTRIBUTION DEVICES AS REQUIRED.
- 14.3. OWNER SHALL PROVIDE AND INSTALL NETWORK SWITCHES (INCLUDING PoE SWITCHES WHERE REQUIRED) AND UPS ONLY.

15. LABELING & AS–BUILTS:
- 15.1. MACHINE LABEL ALL PATCH PANELS, CABLES, OUTLETS, AND ENCLOSURES PER DIVISION 27 STANDARDS.
- 15.2. PROVIDE AS–BUILT DOCUMENTATION SHOWING DEVICE IDs, CABLE IDs, AND TERMINATION POINTS FOR TELECOM, AND CCTV.

16. COORDINATION:
- 16.1. COORDINATE ALL IDF LAYOUTS AND EQUIPMENT MOUNTING WITH THE SCHOOL DISTRICT IT PRIOR TO INSTALLATION.

17. TESTING & STANDARDS
- 17.1. INSTALL AND TEST PER TIA–568 (CABLING/TERMINATION), TIA–569 (PATHWAYS), AND TIA–606 (LABELING/ADMIN).
- 17.2. 100% CERTIFY CAT6 PERMANENT LINKS WITH LEVEL IIIE (OR BETTER) TESTER; SUBMIT DIGITAL REPORTS
- 17.3. FIBER: TEST WITH OLTS FOR END–TO–END LOSS AND OTDR FOR EVENT CHARACTERIZATION PER TIA–568.3–D; SUBMIT TRACES AND RESULTS.

DRAWING E201 SPECIFIC NOTES

1 PROVIDE ONE (1) 4–INCH SLEEVE (EMT OR APPROVED EQUAL) THROUGH THE GYPSUM CEILING FOR LV CABLE ROUTING. LOCATE AS DIRECTED BY ENGINEER. TERMINATE SLEEVE APPROXIMATELY 3 INCHES ABOVE AND 3 INCHES BELOW THE GYP. CEILING; PROVIDE LISTED INSULATED BUSHINGS AT BOTH ENDS AND AN ESCUTCHEON/TRIM RING AT THE EXPOSED SIDE. IF THE CEILING/ASSEMBLY IS RATED OR USED AS A SMOKE BARRIER, PROVIDE LISTED FIRESTOP/SMOKE SEAL AROUND THE SLEEVE PER UL SYSTEM AND CODE. SUPPORT SLEEVE PER CODE; MAINTAIN REQUIRED SEPARATION FROM POWER CIRCUITS. CAP/PLUG SLEEVE WHEN NOT IN USE. LABEL "LV CABLE PASS–THROUGH – 4 IN."

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO REGISTERED PROFESSIONAL ENGINEER 21411 STATE OF MISSISSIPPI 12/8/25

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ENLARGED ELECTRICAL ROOM & TELECOM. ROOMS

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E201

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:16 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
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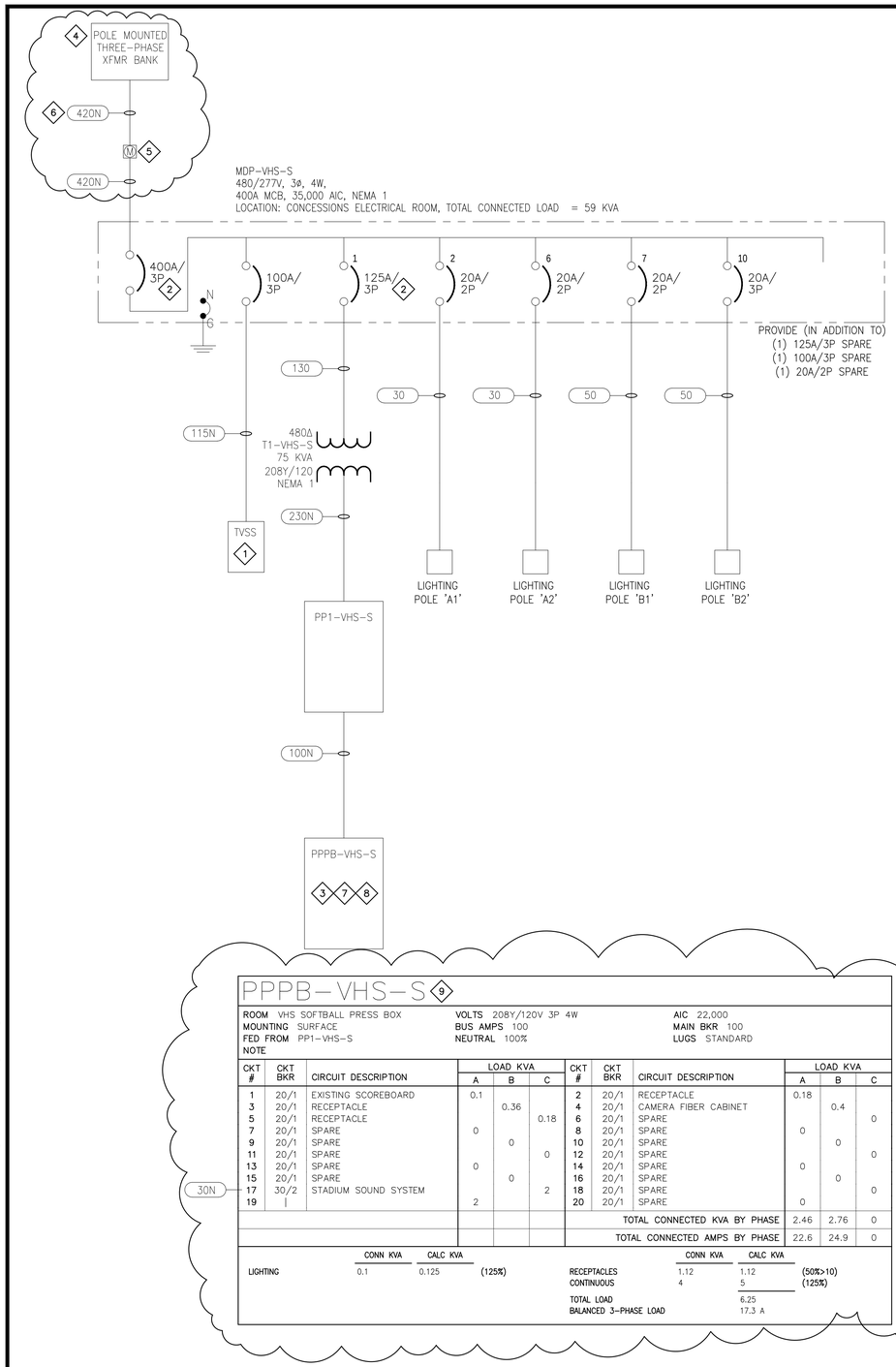


PANEL MDP-VHS-S LOAD SCHEDULE

					TOTAL CONNECTED KVA BY PHASE	16.5	17.8	17.2
					TOTAL CONNECTED AMPS BY PHASE	59.6	64.5	62.2

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	19.5	24.3	(125%)	RECEPTACLES	6.08	6.08	(50%>10)
LARGEST MOTOR	9.95	2.49	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	18.4	18.4	(100%)	HEATING	5.99	5.99	(100%)
				TOTAL LOAD		58.9	
				BALANCED 3-PHASE LOAD		70.9 A	

PP1-VHS-S

ROOM CONCESSIONS ELECTRICAL ROOM
MOUNTING SURFACE
FED FROM T1-VHS-S
NOTE
VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%
AIC 22,000
MAIN BKR 225
LUGS STANDARD

	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
	1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
	3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
	5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
	7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
	9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
50	11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4,			1
	13	|		3			14	|	IDU-5	1		
30	15	30/2	HP-1		1.98		16	20/1	RECEPTACLE		0.18	
	17	|				1.98	18	20/1	RECEPTACLE			0.18
30	19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
	21	|			1.98		22	20/1	RECEPTACLE		0.18	
30	23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
	25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
30	27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	CEF-1, CEF-2, LIGHTING		0.82	
	29	|				0.75	30	20/1	LIGHTING			0.256
	31	20/1	TELECOM. RECEPTACLE	0.6			32	20/1	LIGHTING	0.156		
	33	20/1	TELECOM. RECEPTACLE		0.6		34	20/1	LIGHTING		0.3	
	35	20/1	(EXISTING) SPRINKLER CONTROL			0.8	36	20/1	SPARE			0
	37	20/1	RECEPTACLE	0.18			38	20/1	SPARE	0		
	39	20/1	RECEPTACLE		0.18		40	100/2	PANEL PPPB-VHS-S		0.46	
	41	20/1	SPARE			0	42	|				0.76
	43	20/1	SPARE	0			44	20/1	SPARE	0		
	45	20/1	SPARE		0		46	20/1	SPARE		0	
	47	20/1	SPARE			0	48	20/1	SPARE			0
	49	20/1	SPARE	0			50	20/1	SPARE	0		
	51	20/1	SPARE		0		52	20/1	SPARE		0	
	53	20/1	SPARE			0	54	20/1	SPARE			0
	55	20/1	SPARE	0			56	20/1	SPARE	0		
	57	20/1	SPARE		0		58	20/1	SPARE		0	
	59	20/1	SPARE			0	60	20/1	SPARE			0
	61	20/1	SPARE	0			62	20/1	SPARE	0		
	63	20/1	SPARE		0		64	20/1	SPARE		0	
	65	20/1	SPARE			0	66	20/1	SPARE			0
	67	20/1	SPARE	0			68	20/1	SPARE	0		
	69	20/1	SPARE		0		70	20/1	SPARE		0	
	71	20/1	SPARE			0	72	20/1	SPARE			0
									TOTAL CONNECTED KVA BY PHASE	10.8	8.46	10.4
									TOTAL CONNECTED AMPS BY PHASE	91.6	70.6	87.7

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	0.972	1.22	(125%)	RECEPTACLES	8.4	8.4	(50%>10)
LARGEST MOTOR	3.95	0.988	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	12.8	12.8	(100%)	HEATING	6	6	(100%)
				TOTAL LOAD		31	
				BALANCED 3-PHASE LOAD		85.9 A	

PPPB-VHS-S 9

ROOM VHS SOFTBALL PRESS BOX
MOUNTING SURFACE
FED FROM PP1-VHS-S
NOTE
VOLTS 208Y/120V 3P 4W
BUS AMPS 100
NEUTRAL 100%
AIC 22,000
MAIN BKR 100
LUGS STANDARD

	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
	1	20/1	EXISTING SCOREBOARD	0.1			2	20/1	RECEPTACLE	0.18		
	3	20/1	RECEPTACLE		0.36		4	20/1	CAMERA FIBER CABINET		0.4	
	5	20/1	RECEPTACLE			0.18	6	20/1	SPARE			0
	7	20/1	SPARE	0			8	20/1	SPARE	0		
	9	20/1	SPARE		0		10	20/1	SPARE		0	
	11	20/1	SPARE			0	12	20/1	SPARE			0
	13	20/1	SPARE	0			14	20/1	SPARE	0		
	15	20/1	SPARE		0		16	20/1	SPARE		0	
30N	17	30/2	STADIUM SOUND SYSTEM			2	18	20/1	SPARE			0
	19	|		2			20	20/1	SPARE	0		
									TOTAL CONNECTED KVA BY PHASE	2.46	2.76	0
									TOTAL CONNECTED AMPS BY PHASE	22.6	24.9	0

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	0.1	0.125	(125%)	RECEPTACLES	1.12	1.12	(50%>10)
				CONTINUOUS	4	5	(125%)
				TOTAL LOAD		6.25	
				BALANCED 3-PHASE LOAD		17.3 A	

DRAWING E601 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.
2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.
3. **GROUNDING FOR DRY TYPE TRANSFORMER:**
   - 3.1. PROVIDE A MAIN BONDING JUMPER (MBJ) BETWEEN THE TRANSFORMER SECONDARY NEUTRAL BUS AND THE TRANSFORMER ENCLOSURE IN ACCORDANCE WITH NEC 250.30(A)(1) AND 250.28(D).
   - 3.2. INSTALL A GROUNDING ELECTRODE CONDUCTOR (GEC) FROM THE TRANSFORMER ENCLOSURE TO THE BUILDING GROUNDING ELECTRODE SYSTEM (VIA THE BONDED GROUND BAR IN THE ELECTRICAL ROOM OR LOCAL GROUND ROD).
   - 3.3. SIZE THE GEC IN ACCORDANCE WITH NEC 250.66. BASED ON THE TRANSFORMER SECONDARY PHASE CONDUCTORS.
   - 3.4. BOND METALLIC RACEWAYS AT BOTH ENDS.
   - 3.5. THE SECONDARY NEUTRAL SHALL BE ISOLATED FROM ALL EQUIPMENT GROUNDING CONDUCTORS EXCEPT AT THE MAIN BONDING JUMPER CONNECTION POINT.
   - 3.6. INSTALL PER NEC ARTICLE 250 AND NEC 450.10.

DRAWING E601 SPECIFIC NOTES

1. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-150-480-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 480Y/277, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO MDP AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO MDP SHALL BE LESS THAN 10 FT.
2. BREAKER SHALL BE MOLDED-CASE WITH MICROPROCESSOR-BASED ELECTRONIC TRIP UNIT. PROVIDE ADJUSTABLE LONG-TIME AND SHORT-TIME; ADJUSTABLE INSTANTANEOUS. MINIMUM INTERRUPTING RATING SHALL BE GREATER THAN AVAILABLE FAULT CURRENT. SET/VERIFY TRIP SETTINGS PER THE PROTECTIVE DEVICE COORDINATION STUDY.
3. **SEPARATE BUILDING FEEDER GROUNDING:** PROVIDE INSULATED CU EQUIPMENT GROUNDING CONDUCTOR (SEE FEEDER TAG) FROM PP1-VSH-S TO PPPB-VHS-S. AT PPPB-VHS-S, BOND THE EQUIPMENT GROUNDING BUS TO THE ENCLOSURE AND CONNECT TO THE LOCAL GROUNDING ELECTRODE SYSTEM (BONDED GROUND BUS BAR IN ELECTRICAL ROOM) VIA A 4/0 CU GROUNDING ELECTRODE CONDUCTOR (GEC). NEUTRAL SHALL REMAIN ISOLATED FROM THE ENCLOSURE AND EQUIPMENT GROUNDING BUS. INSTALL AND BOND ALL METALLIC RACEWAYS AT BOTH ENDS PER NEC ARTICLE 250.
4. COORDINATE TERMINATION WITH LOCAL UTILITY COMPANY.
5. CONTRACTOR SHALL PROVIDE AND INSTALL METER CAN. METER SHALL BE PROVIDED AND INSTALLED BY LOCAL UTILITY. CT CABINET IS NOT REQUIRED DUE TO SERVICE ENTRANCE SIZE. COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY PRIOR TO INSTALLATION.
6. NO EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE SERVICE-ENTRANCE CONDUCTORS BETWEEN THE UTILITY PAD-MOUNT TRANSFORMER AND PANELBOARD MDP-VHS-S. BOND ALL METALLIC SERVICE RACEWAYS/FITTINGS PER NEC 250.92, PROVIDE THE MAIN BONDING JUMPER AT SWITCHBOARD MDP, AND INSTALL THE GROUNDING ELECTRODE CONDUCTOR(S) TO THE BUILDING GEC PER NEC 250.24/250.66. COORDINATE ANY SPECIFIC REQUIREMENTS WITH THE UTILITY.
7. PRESS BOX PANELBOARD SHALL BE FURNISHED AND INSTALLED BY THE PRESS BOX MANUFACTURER. ELECTRICAL CONTRACTOR SHALL COORDINATE FEEDER/BRANCH CIRCUIT TERMINATIONS, CONDUIT ENTRY LOCATIONS, LUG TYPES, VOLTAGE/AIC RATINGS, AND GROUND/NEUTRAL REQUIREMENTS WITH APPROVED PRESS BOX SHOP DRAWINGS PRIOR TO ROUGH-IN. PROVIDE SLEEVES/CONDUITS TO MATCH SHOP DRAWINGS AND VERIFY WORKING CLEARANCES AND MOUNTING ELEVATIONS.
8. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.
9. PANELBOARD SHALL BE PROVIDED AND INSTALLED BY PRESS BOX MANUFACTURER. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ADDITIONAL BRANCH CIRCUITS AS SHOWN, INCLUDING ALL REQUIRED CIRCUIT BREAKERS.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO
REGISTERED PROFESSIONAL ENGINEER
12/8/25
E11411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

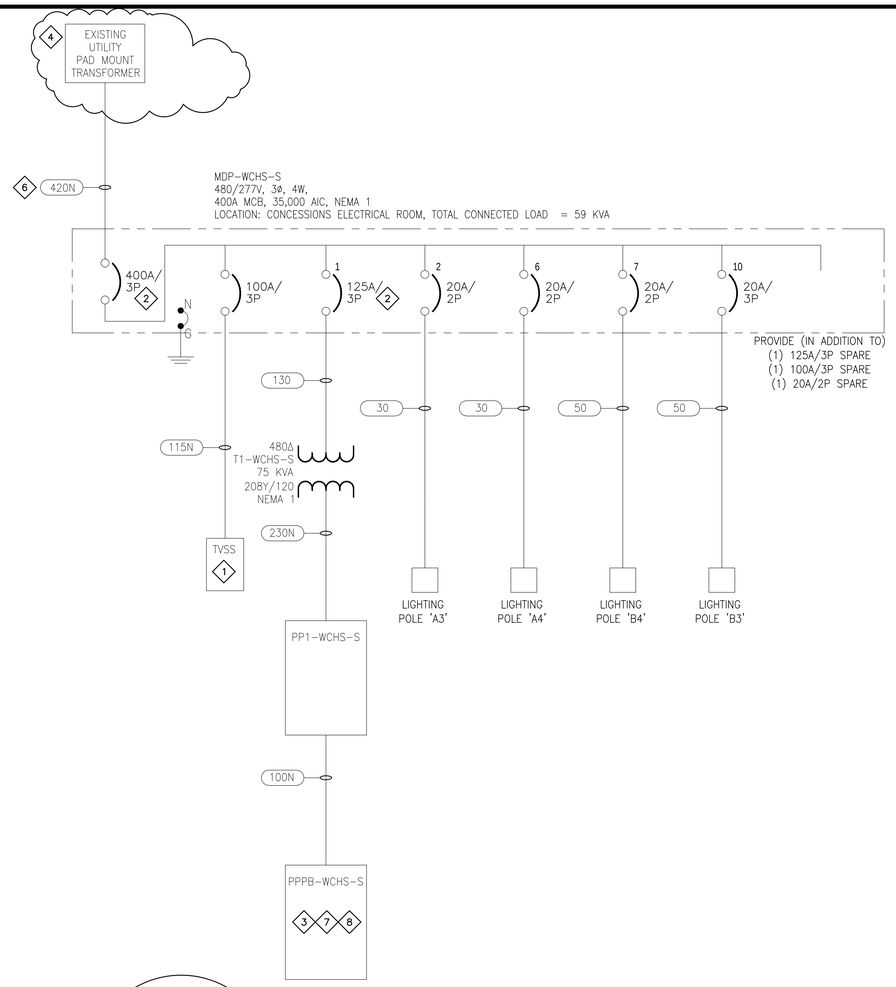
SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL ONE-LINE DIAGRAM - VHS SOFTBALL

E601

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:16 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
m:\0323_vicksburg warren school district\0323.25.002 vwsd softball upgrade\06-electrical\02-production\01-production drawings\vwsd softball upgrade.dwg



PANEL MDP-WCHS-S LOAD SCHEDULE

	A	B	C
TOTAL CONNECTED KVA BY PHASE	16.5	15.1	14.6
TOTAL CONNECTED AMPS BY PHASE	59.6	54.6	52.8

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	19.4	24.2	(125%)	RECEPTACLES	6.88	6.88	(50%>10)
LARGEST MOTOR	3.95	0.988	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	12.4	12.4	(100%)	HEATING	5.99	5.99	(100%)
				TOTAL LOAD		52.1	
				BALANCED 3-PHASE LOAD		62.6 A	

PP1-WCHS-S

ROOM
MOUNTING SURFACE
FED FROM T1-WCHS-S
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC 22,000
MAIN BKR 225
LUGS STANDARD

	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
	1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
	3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
	5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
	7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
	9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
50	11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4,			1
	13	|		3			14	|	IDU-5	1		
30	15	30/2	HP-1		1.98		16	20/1	RECEPTACLE		0.18	
	17	|				1.98	18	20/1	RECEPTACLE			0.18
30	19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
	21	|			1.98		22	20/1	RECEPTACLE		0.18	
30	23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
	25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
30	27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	CEF-1, CEF-2, LIGHTING		0.82	
	29	|				0.75	30	20/1	LIGHTING			0.256
	31	20/1	TELECOM. RECEPTACLE	0.6			32	20/1	LIGHTING	0.156		
	33	20/1	TELECOM. RECEPTACLE		0.6		34	20/1	LIGHTING		0.3	
	35	20/1	SPARE			0	36	20/1	SPARE			0
	37	20/1	SPARE	0			38	20/1	SPARE	0		
	39	20/1	SPARE		0		40	100/3	PANEL PPPB-WCHS-S		0	
	41	20/1	SPARE			0	42	|				0
	43	20/1	SPARE	0			44	|		0		
	45	20/1	SPARE		0		46	20/1	SPARE		0	
	47	20/1	SPARE			0	48	20/1	SPARE			0
	49	20/1	SPARE	0			50	20/1	SPARE	0		
	51	20/1	SPARE		0		52	20/1	SPARE		0	
	53	20/1	SPARE			0	54	20/1	SPARE			0
	55	20/1	SPARE	0			56	20/1	SPARE	0		
	57	20/1	SPARE		0		58	20/1	SPARE		0	
	59	20/1	SPARE			0	60	20/1	SPARE			0
	61	20/1	SPARE	0			62	20/1	SPARE	0		
	63	20/1	SPARE		0		64	20/1	SPARE		0	
	65	20/1	SPARE			0	66	20/1	SPARE			0
	67	20/1	SPARE	0			68	20/1	SPARE	0		
	69	20/1	SPARE		0		70	20/1	SPARE		0	
	71	20/1	SPARE			0	72	20/1	SPARE			0
									TOTAL CONNECTED KVA BY PHASE	10.8	10	10.4
									TOTAL CONNECTED AMPS BY PHASE	91.6	83.7	87.7

	CONN KVA	CALC KVA			CONN KVA	CALC KVA	
LIGHTING	1.17	1.47	(125%)	RECEPTACLES	8.98	8.98	(50%>10)
LARGEST MOTOR	3.95	0.988	(25%)	KITCHEN EQUIPMENT	1.6	1.6	(100%)
MOTORS	12.8	12.8	(100%)	CONTINUOUS	0.8	1	(125%)
				HEATING	6	6	(100%)
				TOTAL LOAD		32.8	
				BALANCED 3-PHASE LOAD		91 A	

PPPB-WCHS-S 9

ROOM WCHS SOFTBALL PRESSBOX
MOUNTING SURFACE
FED FROM PP1-WCHS-S
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 100
NEUTRAL 100%

AIC 22,000
MAIN BKR 100
LUGS STANDARD

30N

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
1	20/1	CAMERA FIBER CABINET	0.4			2	20/1	RECEPTACLE	0.36		
3	20/1	CAMERA FIBER CABINET		0.4		4	20/1	RECEPTACLE		0.18	
5	20/1	SPARE			0	6	20/1	SPRINKLER CONTROL POWER			0.8
7	20/1	SPARE	0			8	20/1	RECEPTACLE	0.18		
9	20/1	SPARE		0		10	20/1	RECEPTACLE		0.18	
11	20/1	SPARE			0	12	20/1	SPARE			0
13	20/1	SPARE	0			14	20/1	SPARE	0		
15	20/1	SPARE		0		16	20/1	SPARE		0	
17	30/2	STADIUM SOUND SYSTEM			2	18	20/1	SPARE			0
19	|		2			20	20/1	SPARE	0		
								TOTAL CONNECTED KVA BY PHASE	1.74	0.76	0
								TOTAL CONNECTED AMPS BY PHASE	14.5	6.33	0

	CONN KVA	CALC KVA			CALC KVA
RECEPTACLES	1.7	1.7	(50%>10)	TOTAL LOAD	2.7
CONTINUOUS	0.8	1	(125%)	BALANCED 3-PHASE LOAD	7.49 A

DRAWING E602 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.
2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.
3. **GROUNDING FOR DRY TYPE TRANSFORMER:**
   - 3.1. PROVIDE A MAIN BONDING JUMPER (MBJ) BETWEEN THE TRANSFORMER SECONDARY NEUTRAL BUS AND THE TRANSFORMER ENCLOSURE IN ACCORDANCE WITH NEC 250.30(A)(1) AND 250.28(D).
   - 3.2. INSTALL A GROUNDING ELECTRODE CONDUCTOR (GEC) FROM THE TRANSFORMER ENCLOSURE TO THE BUILDING GROUNDING ELECTRODE SYSTEM (VIA THE BONDED GROUND BAR IN THE ELECTRICAL ROOM OR LOCAL GROUND ROD).
   - 3.3. SIZE THE GEC IN ACCORDANCE WITH NEC 250.66. BASED ON THE TRANSFORMER SECONDARY PHASE CONDUCTORS.
   - 3.4. BOND METALLIC RACEWAYS AT BOTH ENDS.
   - 3.5. THE SECONDARY NEUTRAL SHALL BE ISOLATED FROM ALL EQUIPMENT GROUNDING CONDUCTORS EXCEPT AT THE MAIN BONDING JUMPER CONNECTION POINT.
   - 3.6. INSTALL PER NEC ARTICLE 250 AND NEC 450.10.

DRAWING E602 SPECIFIC NOTES

1. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-150-480-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 480Y/277, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO MDP AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO MDP SHALL BE LESS THAN 10 FT.
2. BREAKER SHALL BE MOLDED-CASE WITH MICROPROCESSOR-BASED ELECTRONIC TRIP UNIT. PROVIDE ADJUSTABLE LONG-TIME AND SHORT-TIME; ADJUSTABLE INSTANTANEOUS. MINIMUM INTERRUPTING RATING SHALL BE GREATER THAN AVAILABLE FAULT CURRENT. SET/VERIFY TRIP SETTINGS PER THE PROTECTIVE DEVICE COORDINATION STUDY.
3. **SEPARATE BUILDING FEEDER GROUNDING:** PROVIDE INSULATED CU EQUIPMENT GROUNDING CONDUCTOR (SEE FEEDER TAG) FROM PP1-VSH-S TO PPPB-VHS-S. AT PPPB-VHS-S, BOND THE EQUIPMENT GROUNDING BUS TO THE ENCLOSURE AND CONNECT TO THE LOCAL GROUNDING ELECTRODE SYSTEM (BONDED GROUND BUS BAR IN ELECTRICAL ROOM) VIA A 4/0 CU GROUNDING ELECTRODE CONDUCTOR (GEC). NEUTRAL SHALL REMAIN ISOLATED FROM THE ENCLOSURE AND EQUIPMENT GROUNDING BUS. INSTALL AND BOND ALL METALLIC RACEWAYS AT BOTH ENDS PER NEC ARTICLE 250.
4. UTILITY PAD-MOUNT TRANSFORMER IS EXISTING. LOCAL UTILITY SHALL MAKE ALL PROVISIONS FOR CONDUIT ENTRY. CONTRACTOR SHALL PROVIDE AND INSTALL SERVICE ENTRANCE FEEDER. TERMINATION SHALL BE BY LOCAL UTILITY.
5. NOT USED.
6. NO EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE SERVICE-ENTRANCE CONDUCTORS BETWEEN THE UTILITY PAD-MOUNT TRANSFORMER AND PANELBOARD MDP-VHS-S. BOND ALL METALLIC SERVICE RACEWAYS/FITTINGS PER NEC 250.92, PROVIDE THE MAIN BONDING JUMPER AT SWITCHBOARD MDP, AND INSTALL THE GROUNDING ELECTRODE CONDUCTOR(S) TO THE BUILDING GEC PER NEC 250.24/250.66. COORDINATE ANY SPECIFIC REQUIREMENTS WITH THE UTILITY.
7. PRESS BOX PANELBOARD SHALL BE FURNISHED AND INSTALLED BY THE PRESS BOX MANUFACTURER. ELECTRICAL CONTRACTOR SHALL COORDINATE FEEDER/BRANCH CIRCUIT TERMINATIONS, CONDUIT ENTRY LOCATIONS, LUG TYPES, VOLTAGE/AIC RATINGS, AND GROUND/NEUTRAL REQUIREMENTS WITH APPROVED PRESS BOX SHOP DRAWINGS PRIOR TO ROUGH-IN. PROVIDE SLEEVES/CONDUITS TO MATCH SHOP DRAWINGS AND VERIFY WORKING CLEARANCES AND MOUNTING ELEVATIONS.
8. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.
9. PANELBOARD SHALL BE PROVIDED AND INSTALLED BY PRESS BOX MANUFACTURER. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ADDITIONAL BRANCH CIRCUITS AS SHOWN, INCLUDING ALL REQUIRED CIRCUIT BREAKERS.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO REGISTERED PROFESSIONAL ENGINEER 12/8/25 STATE OF MISSISSIPPI 21411

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT
3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL ONE-LINE DIAGRAM - WCHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E602

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:17 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
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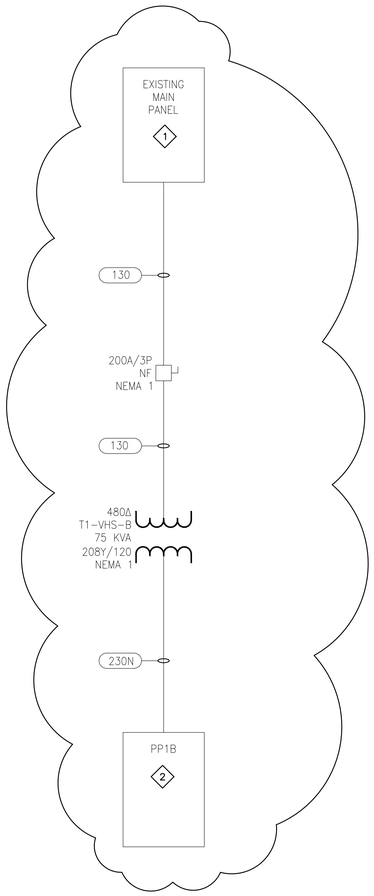

PP1B

ROOM CONCESSIONS ELECTRICAL ROOM
MOUNTING SURFACE
FED FROM LVD-EXISTING
NOTE

VOLTS 208Y/120V 3P 4W
BUS AMPS 225
NEUTRAL 100%

AIC 22,000
MAIN BKR 225
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA A	B	C
1	20/1	REFRIGERATOR (GFCI BREAKER)	0.8			2	20/1	RECEPTACLE	0.18		
3	20/1	RECEPTACLE		0.18		4	20/1	RECEPTACLE		0.18	
5	20/1	RECEPTACLE			0.18	6	20/1	RECEPTACLE			0.18
7	20/1	RECEPTACLE	0.72			8	20/1	REFRIGERATOR (GFCI BREAKER)	0.8		
9	20/1	WATER FOUNTAIN (GFCI BREAKER)		0.8		10	20/1	RECEPTACLE		0.36	
50 11	40/2	WH-1			3	12	20/2	IDU-1, IDU-2, IDU-3, IDU-4, IDU-5			1
13	|		3			14	|		1		
30 15	30/2	HP-1		1.98		16	20/1	RECEPTACLE		0.18	
17	|				1.98	18	20/1	RECEPTACLE			0.18
30 19	30/2	HP-2	1.98			20	20/1	RECEPTACLE	0.18		
21	|			1.98		22	20/1	RECEPTACLE		0.18	
30 23	20/2	HP-3			1.25	24	20/1	RECEPTACLE			0.9
25	|		1.25			26	20/1	CEILING RECEPTACLE (GFCI BREAKER)	0.18		
30 27	20/2	ICE MACHINE (GFCI BREAKER)		0.75		28	20/1	CEF-1, CEF-2, LIGHTING		0.7	
29	|				0.75	30	20/1	LIGHTING			0.376
31	20/1	TELECOM. RECEPTACLE	0.6			32	20/1	LIGHTING	0.156		
33	20/1	TELECOM. RECEPTACLE		0.6		34	20/1	SPARE		0	
35	20/1	SPARE			0	36	20/1	SPARE			0
37	20/1	SPARE	0			38	20/1	SPARE	0		
39	20/1	SPARE		0		40	20/1	SPARE		0	
41	20/1	SPARE			0	42	20/1	SPARE			0
43	20/1	SPARE	0			44	20/1	SPARE	0		
45	20/1	SPARE		0		46	20/1	SPARE		0	
47	20/1	SPARE			0	48	20/1	SPARE			0
49	20/1	SPARE	0			50	20/1	SPARE	0		
51	20/1	SPARE		0		52	20/1	SPARE		0	
53	20/1	SPARE			0	54	20/1	SPARE			0
55	20/1	SPARE	0			56	20/1	SPARE	0		
57	20/1	SPARE		0		58	20/1	SPARE		0	
59	20/1	SPARE			0	60	20/1	SPARE			0
61	20/1	SPARE	0			62	20/1	SPARE	0		
63	20/1	SPARE		0		64	20/1	SPARE		0	
65	20/1	SPARE			0	66	20/1	SPARE			0
67	20/1	SPARE	0			68	20/1	SPARE	0		
69	20/1	SPARE		0		70	20/1	SPARE		0	
71	20/1	SPARE			0	72	20/1	SPARE			0
								TOTAL CONNECTED KVA BY PHASE	10.8	7.88	9.79
								TOTAL CONNECTED AMPS BY PHASE	91.6	65.8	82.4

	CONN KVA	CALC KVA	
LIGHTING	0.872	1.09	(125%)
LARGEST MOTOR	3.95	0.988	(25%)
MOTORS	12.8	12.8	(100%)

	CONN KVA	CALC KVA	
RECEPTACLES	7.28	7.28	(50%>10)
KITCHEN EQUIPMENT	1.6	1.6	(100%)
HEATING	6	6	(100%)
TOTAL LOAD		29.7	
BALANCED 3-PHASE LOAD		82.5 A	

DRAWING E603 NOTES

1. **ARC-FLASH STUDY & LABELS:** CONTRACTOR SHALL PROVIDE SHORT-CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDIES PER SPECIFICATIONS. FURNISH AND APPLY ARC-FLASH HAZARD LABELS TO ALL NEW ELECTRICAL EQUIPMENT SUBJECT TO EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED, IN ACCORDANCE WITH NFPA 70E (AND NEC 110.16(B) WHERE APPLICABLE). LABELS SHALL REFLECT AS-BUILT CONDITIONS AND BE IN PLACE PRIOR TO ENERGIZATION; UPDATE IF SYSTEM CHANGES OCCUR.
2. **ELECTRONIC TRIP SETTINGS:** CONTRACTOR SHALL SET ALL ELECTRONIC TRIP CIRCUIT BREAKERS IN ACCORDANCE WITH APPROVED PROTECTIVE DEVICE COORDINATION STUDY SETTING TABLE (LONG TIME, SHORT TIME, INSTANTANEOUS, AND GROUND-FAULT WHERE PROVIDED). RECORD "AS-LEFT" SETTINGS ON THE SCHEDULE AND EQUIPMENT, AND SUBMIT TEST RESULTS.

DRAWING E603 SPECIFIC NOTES

1. PANELBOARD IS EXISTING. CONTRACTOR SHALL REMOVE EXISTING SPARE 100A/3P CIRCUIT BREAKER AND PROVIDE AND INSTALL NEW 125A/3P CIRCUIT BREAKER.
2. SURGE PROTECTIVE DEVICE (SPD): PROVIDE CURRENT TECHNOLOGY TRANSGUARD MODEL TG3-080-208-3Y-MN-B-M3-F-HPI OR APPROVED EQUAL; UL 1449 (4TH ED) TYPE 1, 208Y/120, 3ø, 4W+G, ALL MODES (L-L, L-N, L-G, N-G). MOUNT ADJACENT TO PANEL AND CONNECT VIA DEDICATED BREAKER; LIMIT TOTAL LEAD LENGTH TO LESS THAN 18 IN. INTERNAL/PLUG-ON (IN-PANEL) SPDs NOT PERMITTED. PROVIDE LOCAL STATUS INDICATION AND REMOTE ALARM CONTACTS. INSTALL PER MANUFACTURER'S REQUIREMENTS. CONDUIT RUN FROM SPD TO PANEL SHALL BE LESS THAN 10 FT.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO
REGISTERED PROFESSIONAL ENGINEER
12/8/25
E9411
STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

ELECTRICAL RISER DIAGRAM - VHS BASEBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E603

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:17 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:07 PM BY: Kbeverin
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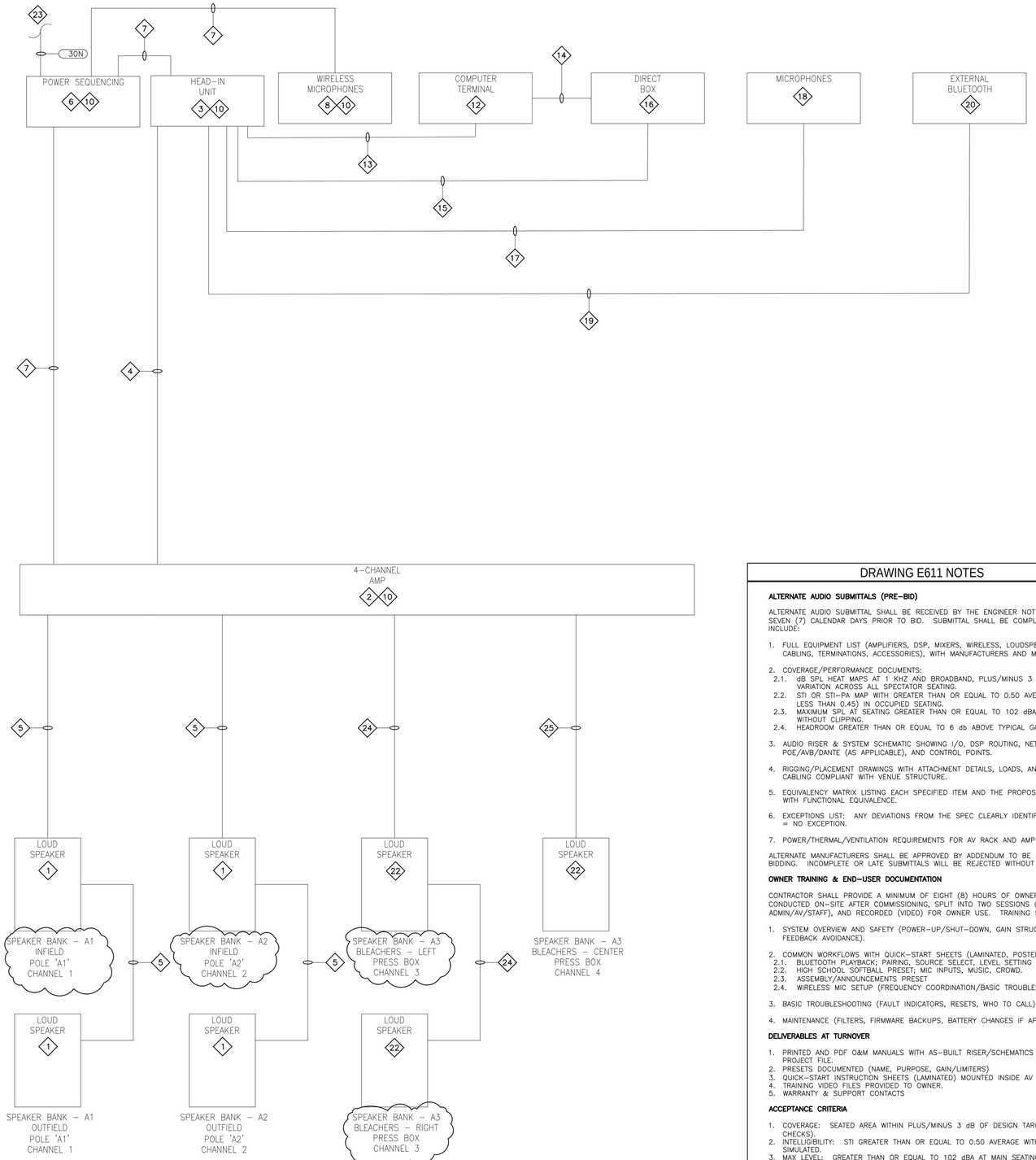

DRAWING E611 NOTES

ALTERNATE AUDIO SUBMITTALS (PRE–BID)

ALTERNATE AUDIO SUBMITTAL SHALL BE RECEIVED BY THE ENGINEER NOT LESS THAN SEVEN (7) CALENDAR DAYS PRIOR TO BID. SUBMITTAL SHALL BE COMPLETE AND INCLUDE:

1. FULL EQUIPMENT LIST (AMPLIFIERS, DSP, MIXERS, WIRELESS, LOUDSPEAKERS, RIGGING, CABLING, TERMINATIONS, ACCESSORIES), WITH MANUFACTURERS AND MODEL NUMBERS.

2. COVERAGE/PERFORMANCE DOCUMENTS:
   - 2.1. dB SPL HEAT MAPS AT 1 KHZ AND BROADBAND, PLUS/MINUS 3 dB MAX VARIATION ACROSS ALL SPECTATOR SEATING.
   - 2.2. STI OR STI–PA MAP WITH GREATER THAN OR EQUAL TO 0.50 AVERAGE (NO POINT LESS THAN 0.45) IN OCCUPIED SEATING.
   - 2.3. MAXIMUM SPL AT SEATING GREATER THAN OR EQUAL TO 102 dBA SHORT–TERM WITHOUT CLIPPING.
   - 2.4. HEADROOM GREATER THAN OR EQUAL TO 6 db ABOVE TYPICAL GAME LEVELS.

3. AUDIO RISER & SYSTEM SCHEMATIC SHOWING I/O, DSP ROUTING, NETWORK, POE/AVB/DANTE (AS APPLICABLE), AND CONTROL POINTS.

4. RIGGING/PLACEMENT DRAWINGS WITH ATTACHMENT DETAILS, LOADS, AND SAFETY CABLING COMPLIANT WITH VENUE STRUCTURE.

5. EQUIVALENCY MATRIX LISTING EACH SPECIFIED ITEM AND THE PROPOSED ALTERNATE WITH FUNCTIONAL EQUIVALENCE.

6. EXCEPTIONS LIST: ANY DEVIATIONS FROM THE SPEC CLEARLY IDENTIFIED: SILENCE = NO EXCEPTION.

7. POWER/THERMAL/VENTILATION REQUIREMENTS FOR AV RACK AND AMP LOCATIONS.

ALTERNATE MANUFACTURERS SHALL BE APPROVED BY ADDENDUM TO BE ELIGIBLE FOR BIDDING. INCOMPLETE OR LATE SUBMITTALS WILL BE REJECTED WITHOUT REVIEW.

OWNER TRAINING & END–USER DOCUMENTATION

CONTRACTOR SHALL PROVIDE A MINIMUM OF EIGHT (8) HOURS OF OWNER TRAINING, CONDUCTED ON–SITE AFTER COMMISSIONING, SPLIT INTO TWO SESSIONS (GAME–OPS AND ADMIN/AV/STAFF), AND RECORDED (VIDEO) FOR OWNER USE. TRAINING SHALL COVER:

1. SYSTEM OVERVIEW AND SAFETY (POWER–UP/SHUT–DOWN, GAIN STRUCTURE, FEEDBACK AVOIDANCE).

2. COMMON WORKFLOWS WITH QUICK–START SHEETS (LAMINATED, POSTED AT AV RACK):
   - 2.1. BLUETOOTH PLAYBACK; PAIRING, SOURCE SELECT, LEVEL SETTING
   - 2.2. HIGH SCHOOL SOFTBALL PRESETS: MIC INPUTS, MUSIC, CROWD.
   - 2.3. ASSEMBLY/ANNOUNCEMENTS PRESET
   - 2.4. WIRELESS MIC SETUP (FREQUENCY COORDINATION/BASIC TROUBLESHOOTING)

3. BASIC TROUBLESHOOTING (FAULT INDICATORS, RESETS, WHO TO CALL).

4. MAINTENANCE (FILTERS, FIRMWARE BACKUPS, BATTERY CHANGES IF APPLICABLE)

DELIVERABLES AT TURNOVER

1. PRINTED AND PDF O&M MANUALS WITH AS–BUILT RISER/SCHEMATICS AND DSP PROJECT FILE.
2. PRESETS DOCUMENTED (NAME, PURPOSE, GAIN/LIMITERS)
3. QUICK–START INSTRUCTION SHEETS (LAMINATED) MOUNTED INSIDE AV RACK.
4. TRAINING VIDEO FILES PROVIDED TO OWNER.
5. WARRANTY & SUPPORT CONTACTS

ACCEPTANCE CRITERIA

1. COVERAGE: SEATED AREA WITHIN PLUS/MINUS 3 dB OF DESIGN TARGET (SPOT CHECKS).
2. INTELLIGIBILITY: STI GREATER THAN OR EQUAL TO 0.50 AVERAGE WITH HOUSE NOISE SIMULATED.
3. MAX LEVEL: GREATER THAN OR EQUAL TO 102 dBA AT MAIN SEATING WITHOUT AMPLIFIER CLIPPING.
4. FEEDBACK STABILITY: GREATER THAN OR EQUAL TO 6 dB MARGIN AT GAME PRESET WITH HANDHELD WIRELESS AT CENTER COURT.
5. PRESET RECALL: ALL LISTED PRESET FUNCTION AND ARE LOCKED AGAINST ACCIDENTAL EDT.

DRAWING E611 SPECIFIC NOTES

1. LOUDSPEAKERS: RCF COMPACT C 45 WP. MOUNT AT LIGHT POLES SHOWN ON SHEETS E101 AND E103 WITH T.O. CABINET AT 40'–0" AFG. AIM AND CONFIGURE PER MANUFACTURER SHOP/AIMING DRAWINGS. PROVIDE RCF–APPROVED POLE–MOUNT BRACKETS/BANDS WITH VIBRATION ISOLATION; HARDWARE SHALL BE HOT–DIP GALVANIZED OR ZINC–PLATED STEEL. SUBMIT RIGGING LOADS, WIND/POLE – CAPACITY CHECK, AND ATTACHMENT DETAILS FOR APPROVAL; MAINTAIN POLE WARRANTY. ROUTE CABLING WITHIN POLE/CONDUIT; PROVIDE SLEEVED, GASKETED, SEALED PENETRATIONS – NO FIELD CAULK ONLY OPENINGS OR EXPOSED SPLICES. WEATHERPROOF CONNECTIONS; BOND/GROUND PER NEC. COORDINATE FINAL TILT, AZIMUTH, AND HORN/WAVEGUIDE SELECTION WITH RCF AND REFLECT IN APPROVED SHOP DRAWINGS.
2. AMPLIFIERS: RCF QPS 10K, 4–CHANNEL. RACK–MOUNT IN AUDIO CABINET WITH MANUFACTURER RACK EARS; PROVIDE VENTILATION CLEARANCES AND AIRFLOW PER MANUFACTURER. PROVIDE DEDICATED BRANCH–CIRCUIT POWER AND SURGE PROTECTION PER MANUFACTURER REQUIREMENTS. THIS AMPLIFIER HAS NO ONBOARD DSP–ALL EQ, LIMITING, AND DELAYS SHALL BE PROVIDED BY THE ALLEN & HEATH SQ–RACK AND COORDINATED DURING COMMISSIONING. MAINTAIN A MINIMUM LOAD OF 4 Ω PER CHANNEL; DO NOT PARALLEL MORE THAN TWO (2) 8–Ω LOUDSPEAKERS ON A SINGLE CHANNEL. LABEL AMP INPUTS BY ZONE AND LABEL AMP OUTPUTS TO MATCH LOUDSPEAKER IDS ON THE DRAWINGS. PROVIDE TERMINATIONS, FERRULES/LOOMING, AND CABLE MANAGEMENT FOR A NEAT, SERVICEABLE INSTALLATION.
3. HEAD–IN (MIXER/PROCESSOR): ALLEN & HEATH SQ–RACK (SQ–SERIES ENGINE/IO). RACK–MOUNT IN AV CABINET WITH MANUFACTURER RACK EARS AND PROVIDE REQUIRED VENTILATION CLEARANCE. THIS UNIT SHALL PROVIDE SYSTEM DSP (EQ, DYNAMICS, DELAYS, ROUTING) FOR ALL ZONES. PROVIDE BALANCED ANALOG LINE–LEVEL OUTPUTS TO AMPLIFIERS (OR NETWORKED AUDIO OUTPUTS SUCH AS DANTE/SLINK AS SHOWN IN SUBMITTALS); INCLUDE ALL REQUIRED INTERFACE CARDS, PATCH CABLES, AND BREAKOUTS. PROVIDE USB/NETWORK CONNECTIVITY FOR CONTROL/RECORDING AS REQUIRED. LOAD CURRENT FIRMWARE, LABEL ALL I/O TO MATCH APPROVED SHOP DRAWINGS, AND SAVE/DELIVER SCENE PRESETS (HIGH SCHOOL GAME, JUNIOR HIGH GAME, PRACTICE, BLUETOOTH) TO INTERNAL MEMORY AND TO A SUPPLIED USB DRIVE. COORDINATE FINAL I/O MAP AND OUTPUT LEVEL STRUCTURE WITH AMPLIFIER COMMISSIONING.
4. LINE–LEVEL CABLING (HEAD–IN → AMPLIFIERS): PROVIDE BALANCED ANALOG LINE–LEVEL CABLING FROM ALLEN & HEATH SQ–RACK OUTPUTS TO RCF QPS 10K INPUTS. USE SHIELDED AUDIO CABLE–STAR–QUAD PREFERRED FOR NOISE REJECTION (E.G., MOGAMI/ CANARE STAR–QUAD) OR SINGLE TWISTED–PAIR (E.G., WEST PENN 454 OR EQUAL) WHERE RUNS ARE SHORT/CLEAN. USE C(UL)US–LISTED AUDIO/COMM CABLE. TERMINATE BALANCED ANALOG (XLR/TRS AS REQUIRED BY I/O; TYPICAL: XLR–M AT AMP, XLR–F/TRS AT MIXER). BOND SHIELD/DRAIN AT RACK (SOURCE) END ONLY AND FLOAT AT AMP END; DO NOT LIFT AUDIO GROUNDS. ROUTE NEATLY IN THE AUDIO RACK USING LACING BARS/CABLE MANAGERS; USE HOOK–AND–LOOP (NO ZIP TIES ON SIGNAL); PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT EACH DEVICE. MAINTAIN SEPARATION FROM AC POWER/PDUS AND SPEAKER–LEVEL CONDUCTORS; CROSS ONLY AT 90°. LABEL BOTH ENDS TO MATCH THE I/O SCHEDULE AND AS–BUILTS.
5. SPEAKER CABLING (AMPLIFIER → POLE–MOUNTED LOUDSPEAKERS): LOW–IMPEDANCE SYSTEM; TWO (2) RCF COMPACT C 45 WP (8 Ω EACH) CONNECTED IN PARALLEL PER RCF QPS 10K CHANNEL (APPROX. 4 Ω LOAD PER CHANNEL). FROM EACH AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2 CONDUCTOR, STRANDED TINNED–COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL TO THE FIRST C45 LOUDSPEAKER; LOOP–THRU TO THE SECOND C45 USING NL4 LINK (PINS 1+ / 1– ONLY, PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS – TERMINATE ONLY AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTORS. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–1 TO C45–01/02"). VERIFY FINAL LOAD IS WITHIN AMPLIFIER SPECIFICATION AND SET CHANNEL LIMITERS FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.
6. AV RACK POWER DISTRIBUTION: FURMAN ASD–120 2.0, 6–CIRCUIT POWER SEQUENCER (120 A RATED). RACK–MOUNT IN AUDIO CABINET AND FEED WITH DEDICATED BRANCH CIRCUIT(S) PER NAMEPLATE, SAME PHASE/LEG GROUP, WITH NEUTRAL AND EQUIPMENT GROUND. SERVE AV EQUIPMENT ONLY (AMPLIFIERS, MIXER/PROCESSOR)–NO LIGHTING OR NON–AV LOADS. CONFIGURE SEQUENCE TIMING SO MIXER/PROCESSOR AND DSP POWER UP FIRST, AMPLIFIERS LAST; ON SHUTDOWN, AMPLIFIERS OFF FIRST. BOND PDU AND RACK TO EQUIPMENT GROUND PER NEC 640. PROVIDE STRAIN RELIEF AND CORD MANAGEMENT; MAINTAIN REQUIRED VENTILATION AND WORKING CLEARANCES IN RACK. LABEL INCOMING CIRCUIT(S), PDU, AND ALL OUTLETS.
7. POWER CORDS: PROVIDE UL–LISTED MANUFACTURER POWER CORD SETS FOR EACH AV DEVICE, MATCHING DEVICE IEC INLET (E.G., C13/C19) AND PDU RECEPTACLE (NEMA TYPE) EXACTLY–NO ADAPTERS. USE MINIMUM 14 AWG FOR AMPLIFIERS (OR PER NAMEPLATE, WHICHEVER IS LARGER). ROUTE WITHIN THE AV RACK TO THE AV RACK POWER DISTRIBUTION USING HORIZONTAL/VERTICAL CABLE MANAGERS; PROVIDE CORD RETENTION OR LOCKING IEC WHERE AVAILABLE AT BOTH ENDS. NO EXTENSION CORDS, NO DAISY–CHAINS, NO POWER STRIPS. CORD LENGTHS TO SUIT; DO NOT COIL EXCESS IN THE RACK; DO NOT OBSTRUCT EQUIPMENT VENTS. SEPARATE FROM LOW–LEVEL SIGNAL CABLES; CROSS ONLY AT 90°. LABEL BOTH ENDS WITH DEVICE ID AND CIRCUIT. USE HOOK–AND–LOOP FOR BUNDLING (NO ZIP TIES).
8. WIRELESS UMPIRE MIC SYSTEM: PROVIDE SHURE HEADWORN MICROPHONE (SM35 OR WH20) WITH INLINE ON/OFF SWITCH (WA360 OR EQUAL) AND SHURE SLXD1 BODY–PACK TRANSMITTER. PROVIDE MATCHING SHURE SLX04 RECEIVER IN PRESS BOX AV RACK; SELECT FREQUENCY BAND COMPATIBLE WITH LOCAL RF SPECTRUM. INCLUDE TA4F CONNECTION, BELT POUCH/CLIP, AND FOAM WINDSCREEN. LABEL CHANNEL "HEAD UMPIRE." CONNECT RECEIVER XLR OUTPUT TO MIXER INPUT AS SHOWN.
9. NOT USED.
10. LOCATED IN AV EQUIPMENT WALL CABINET. SEE SHEETS E142 AND E143 FOR CABINET DETAILS.
11. NOT USED.
12. COMPUTER TERMINAL (LAPTOP): WINDOWS 11 PRO; INTEL I7 OR RYZEN 7 CPU; 16 GB RAM MIN; 1 TB NVME SSD; 16" DISPLAY (1920×1080 MIN). PROVIDE GIGABIT ETHERNET (RJ–45 NATIVE OR USB–C ADAPTER) AND WI–FI 6; BLUETOOTH 5.X; HDMI OUTPUT; MIN. (2) USB–A AND (1) USB–C PORTS. LOCATE IN PRESS BOX WITH DEDICATED AV RECEPTACLE AND CAT6 DATA DROP TO AV RACK (WIRED ETHERNET AS PRIMARY, WI–FI SECONDARY). INCLUDE LOCKABLE SECURITY CABLE/ANCHOR, ASSET TAG, AND CARRY CASE. CONFIGURE WINDOWS "HIGH PERFORMANCE" POWER PROFILE; DISABLE SLEEP/HYBRID SLEEP/USB SELECTIVE SUSPEND. PROVIDE AUTO–LOGIN USER ACCOUNT (PER OWNER), PLUS LOCAL ADMIN ACCOUNT FOR AV SOFTWARE/UPDATES; ENABLE BITLOCKER AND DELIVER RECOVERY KEY TO OWNER. PRE–INSTALL LATEST DRIVERS/FIRMWARE AND APPROVED AV SOFTWARE (INCLUDING ALLEN & HEATH SQ EDITOR/UTILITIES AND OWNER–APPROVED PLAYBACK/RECORD APPS). PROVIDE HDMI AND 3.5 MM/USB AUDIO BREAKOUT AS REQUIRED FOR MIXER INPUT; INCLUDE NECESSARY ADAPTERS (USB–C → HDMI/DP) AND 10–FT PATCH CABLES. POWER FROM AV RACK PDU/SEQUENCER; PROVIDE CORD MANAGEMENT. LABEL DEVICE, POWER, AND NETWORK CONNECTIONS TO MATCH SHOP DRAWINGS; DELIVER BASELINE SYSTEM IMAGE AND RESTORE MEDIA TO OWNER.
13. DATA LINK (COMPUTER → AUDIO RACK): INSTALL ONE (1) CAT6 UTP CABLE (CAT6A F/UTP OPTIONAL FOR NOISE IMMUNITY) FROM PRESS BOX COMPUTER TERMINAL TO AUDIO RACK (HEAD–IN). ROUTE IN CONDUIT; MAINTAIN MINIMUM 6" SEPARATION FROM AC POWER. TERMINATE ON CATEGORY 6–RATED RJ–45 JACKS AT BOTH ENDS (PATCH PANEL OR 1–GANG JACK AT RACK; 1–GANG JACK AT PRESS BOX TABLE). TERMINATE PER TIA/EIA–568B PINOUT. LABEL BOTH ENDS TO MATCH DRAWINGS AND I/O SCHEDULE. PROVIDE TWO (2) FACTORY–MOLDED CAT6 PATCH CORDS (3–10 FT) AT TURNOVER. TOTAL CHANNEL LENGTH SHALL NOT EXCEED 295 FT (90 M PERMANENT LINK PLUS PATCH CORDS). MAINTAIN BEND RADIUS (≥1" MIN) AND DO NOT EXCEED PULL TENSION LIMITS. NO COUPLERS OR MID–RUN SPLICES. PROVIDE PULL STRING IN CONDUIT FOR FUTURE USE. FIELD–TEST LINK WITH CERTIFIED CAT6 TESTER (FLUKE DSX OR EQUAL) AND SUBMIT RESULTS WITH CLOSEOUT DOCUMENTS.
14. AUX INPUT (LAPTOP → PASSIVE STEREO DI): PROVIDE HOSA HMP–006Y OR EQUAL 3.5 MM TRS MALE TO DUAL 1/4" TS MALE "Y" BREAKOUT CABLE TO CONNECT LAPTOP HEADPHONE OUTPUT TO PASSIVE STEREO DI INPUTS (E.G., RADIAL TRIM–TWO) AT THE PRESS BOX TABLE. KEEP UNBALANCED BREAKOUT LENGTH SHORT (6"–1') AND RUN BALANCED XLR OUTPUTS FROM THE DI TO THE MIXER LINE INPUTS IN THE RACK. DI SHALL INCLUDE GROUND–LIFT AND PAD SWITCHES. PROVIDE STRAIN RELIEF OR CABLE CLIP TO PREVENT STRESS AT THE 3.5 MM JACK. LABEL ADAPTER "LAPTOP TO DI (L/R)" AND LABEL XLR OUTPUTS TO MATCH I/O SCHEDULE.
15. DI TO HEAD–IN (LINE–LEVEL): PROVIDE TWO (2) RUNS OF SHIELDED SINGLE TWISTED–PAIR AUDIO CABLE (22 AWG, WEST PENN 454 OR EQUAL) – LEFT (DI–L) AND RIGHT (DI–R) – FROM PASSIVE STEREO DI (PRESS BOX TABLE) TO HEAD–IN LINE INPUTS IN AUDIO RACK. FOR RUNS EXCEEDING 75 FT, USE 20 AWG EQUIVALENT. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED ANALOG (XLR–F AT DI OUTPUT, XLR–M AT RACK INPUT). BOND SHIELD/DRAIN AT RACK (SOURCE) END ONLY; FLOAT AT DI END – DO NOT LIFT PIN 1. PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT BOTH ENDS. LABEL BOTH ENDS "DI–L" AND "DI–R" TO MATCH I/O SCHEDULE. VERIFY CONTINUITY AND POLARITY BEFORE CLOSEOUT.

DRAWING E611 SPECIFIC NOTES (CONTINUE)

16. PASSIVE STEREO DIRECT BOX: RADIAL TRIM–TWO, DUAL PASSIVE, TRANSFORMER–ISOLATED WITH TRIM/ATTENUATION. LOCATE AT PRESS BOX TABLE TO INTERFACE LAPTOP/AUX TO HEAD–IN VIA BALANCED XLR LEFT/RIGHT. PROVIDE SHORT 3.5 MM TRS–TO–DUAL 1/4" TS BREAKOUT (HOSA HMP–006Y OR EQUAL) AT THE TABLE, WITH BALANCED XLR–F OUTPUTS FROM THE DI TO THE RACK LINE INPUTS. USE DI TRIM/PAD AS REQUIRED TO PREVENT OVERLOAD AND ENGAGE GROUND–LIFT AS NEEDED TO ELIMINATE HUM (DO NOT LIFT PIN 1 AT XLR). SECURE DI AND CABLES WITH TIE–DOWN/VELCRO TO PREVENT STRAIN ON THE 3.5 MM JACK. LABEL DI AND XLR OUTPUTS "DI–L" (LEFT) AND "DI–R" (RIGHT) TO MATCH THE I/O SCHEDULE.
17. GOOSENECK MIC LINES (PRESS BOX TABLE → HEAD–IN): PROVIDE TWO (2) RUNS OF SHIELDED BALANCED MICROPHONE CABLE, 22 AWG (WEST PENN 454 OR EQUAL); STAR–QUAD PREFERRED FOR NOISE REJECTION. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED MIC–LEVEL XLR (PIN 2 = HOT, PIN 3 = COLD, PIN 1 = SHIELD) WITH XLR–F AT THE TABLE JACKS AND XLR–M AT THE RACK INPUTS. BOND SHIELD (PIN 1) AT BOTH ENDS; DO NOT LIFT PIN 1. PROVIDE 48 V PHANTOM POWER AT THE HEAD–IN AS REQUIRED BY MICROPHONES. MAINTAIN SEPARATION FROM AC POWER/PDUS; CROSS ONLY AT 90°. PROVIDE SERVICE LOOPS AND STRAIN RELIEF AT BOTH ENDS. LABEL BOTH ENDS "MIC–1" AND "MIC–2" TO MATCH THE I/O SCHEDULE AND VERIFY CONTINUITY/POLARITY AT CLOSEOUT.
18. GOOSENECK MICROPHONES: PROVIDE TWO (2) SHURE MX418D/C (18", CARDIOID) DESKTOP GOOSENECK MICROPHONES WITH BASES (LED/MUTE). LOCATE AT PRESS BOX TABLE. PROVIDE 48 V PHANTOM POWER FROM HEAD–IN. TERMINATE WITH BALANCED XLR (TABLE JACK = XLR–F TO ACCEPT MIC BASE; RACK INPUT = XLR–M). CONFIGURE MUTE SWITCH BEHAVIOR (LATCHING OR MOMENTARY) AND LED TALLY PER APPROVED SHOP DRAWINGS; DEFAULT TO LATCHING "MUTE/UNMUTE" WITH LED FOLLOW. INCLUDE WINDSCREENS, SHOCK/POP ISOLATION, AND CABLE STRAIN RELIEF. USE TAMPER–RESISTANT MOUNTING HARDWARE AND SECURE BASES TO TABLE PER MANUFACTURER INSTRUCTIONS. LABEL "MIC–1" AND "MIC–2." COORDINATE FINAL GAIN STRUCTURE, PHANTOM, AND MUTE LOGIC WITH MIXER SCENES.
19. AUX BLUETOOTH LINES (BT RECEIVER → HEAD–IN): PROVIDE TWO (2) RUNS OF SHIELDED SINGLE TWISTED–PAIR AUDIO CABLE, 22 AWG (WEST PENN 454 OR EQUAL)–LEFT (BT–L) AND RIGHT (BT–R)–FROM A PROFESSIONAL BLUETOOTH RECEIVER WITH BALANCED XLR OUTPUTS (E.G., RADIAL BT–PRO V2 OR EQUAL) TO HEAD–IN LINE INPUTS. ROUTE IN CONDUIT; NO MID–RUN SPLICES. TERMINATE AS BALANCED ANALOG (XLR–F AT BT RECEIVER OUTPUTS, XLR–M AT RACK INPUTS). BOND SHIELD/DRAIN AT THE RACK (DESTINATION) END ONLY; FLOAT AT THE BT RECEIVER END. MAINTAIN SEPARATION FROM AC POWER/PDUS; CROSS ONLY AT 90°. PROVIDE SERVICE LOOPS AND STRAIN RELIEF. LABEL BOTH ENDS "BT–L" AND "BT–R" TO MATCH THE I/O SCHEDULE. VERIFY CONTINUITY/POLARITY AND LEFT/RIGHT CHANNEL ASSIGNMENTS AT CLOSEOUT.
20. BLUETOOTH RECEIVER: RADIAL BT–PRO V2 (2–CHANNEL ACTIVE BLUETOOTH DI). COORDINATE LOCATION WITH ENGINEER AND PROVIDE IN A NON–METALLIC NEMA 4X WEATHERPROOF ENCLOSURE WITH CLEAR WINDOW ORIENTED TOWARD THE FIELD FOR LINE–OF–SIGHT RF. PROVIDE GASKETED, UV–RATED CABLE GLANDS SIZED FOR (2) XLR CABLES; INSTALL DRIP LOOPS AND A DESICCANT PACK INSIDE THE ENCLOSURE. PROVIDE BALANCED LEFT/RIGHT XLR OUTPUTS TO HEAD–IN; KEEP THE DEVICE LEVEL CONTROL ACCESSIBLE THROUGH THE WINDOW OR BY OPENING THE COVER. POWER: DEFAULT TO 48 V PHANTOM (ENABLE PHANTOM ON BOTH XLR INPUT CHANNELS AT THE MIXER). MOUNT SECURELY WITH TAMPER–RESISTANT HARDWARE; PROVIDE SERVICE LOOP ON ALL CABLES. MAINTAIN SEPARATION FROM AC POWER/PDUS; AVOID MOUNTING IMMEDIATELY ADJACENT TO LARGE METAL.
21. NOT USED.
22. LOUDSPEAKERS: RCF COMPACT C 45 WP. MOUNT ATOP PRESS BOX AS SHOWN ON E142 AND E143 USING ENGINEER–APPROVED BRACKETS WITH VIBRATION ISOLATION; ANCHOR TO STRUCTURE (NOT PARAPET CAP). VERIFY STRUCTURAL CAPACITY AND WIND/UPLIFT WITH ENGINEER; PROVIDE SECONDARY SAFETY TETHER PER MANUFACTURER. AIM/CONFIGURE PER APPROVED MANUFACTURER SHOP/AIMING DRAWINGS; TORQUE FASTENERS TO MANUFACTURER SPEC. ROUTE CABLING WITHIN WALL/ROOF CAVITY; PROVIDE SLEEVED, GASKETED, SEALED PENETRATIONS–NO FIELD–CAULK–ONLY OPENINGS OR EXPOSED SPLICES. USE UV–RATED OUTDOOR CABLE; PROVIDE DRIP LOOPS AND WEATHER BOOTS AT EXTERIOR CONNECTORS. HARDWARE: HOT–DIP GALVANIZED OR ZINC–PLATED STEEL (NO STAINLESS). WEATHERPROOF CONNECTIONS; BOND/GROUND PER NEC. COORDINATE FINAL TILT, AZIMUTH, AND HORN/WAVEGUIDE SELECTION WITH RCF AND SHOW IN APPROVED SHOP DRAWINGS; COORDINATE WITH ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.
23. EED AV RACK POWER DISTRIBUTION FROM PRESS BOX PANEL. INSTALL 30 A, 2–POLE (COMMON–TRIP) BREAKER, 120/208 V, SINGLE–PHASE, DEDICATED TO AV–NO SHARED LOADS. PROVIDE 4–WIRE FEED (2 HOTS + NEUTRAL + EQUIPMENT GROUND) IN CONDUIT TO AV RACK PDU/RECEPTACLE AS SHOWN; PROVIDE NEMA L14–30R RECEPTACLE. SIZE CONDUCTORS PER NEC 310 FOR 30 A (75 °C RATED COPPER). BOND NEUTRAL AND EQUIPMENT GROUND PER NEC 250. LABEL BREAKER, CONDUIT, AND RECEPTACLE "AV RACK PDU – 30 A DEDICATED (120/208 V 1Φ)." MAINTAIN SEPARATION FROM NON–AV CIRCUITS.
24. SPEAKER CABLING (AMPLIFIER → PRESS BOX LEFT/RIGHT LOUDSPEAKERS): LOW–IMPEDANCE SYSTEM; TWO (2) RCF COMPACT C 45 WP (8 Ω EACH) CONNECTED IN PARALLEL PER RCF QPS 10K CHANNEL (APPROX. 4 Ω LOAD PER CHANNEL). FROM EACH AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2–CONDUCTOR, STRANDED TINNED–COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL TO THE FIRST C45 LOUDSPEAKER; LOOP–THRU TO THE SECOND C45 USING NL4 LINK (PINS 1+ / 1– ONLY; PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS–TERMINATE ONLY AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTORS. TORQUE ALL TERMINALS PER MANUFACTURER SPEC. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–1 TO C45–L/R"). VERIFY CONTINUITY, POLARITY, AND FINAL LOAD WITHIN AMPLIFIER SPECIFICATION; SET CHANNEL LIMITERS FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.
25. SPEAKER CABLING (AMPLIFIER → PRESS BOX CENTER LOUDSPEAKER): LOW–IMPEDANCE SYSTEM; ONE (1) RCF COMPACT C 45 WP (8 Ω) ON A DEDICATED RCF QPS 10K CHANNEL (8 Ω LOAD). FROM THE AMPLIFIER OUTPUT, RUN WEST PENN 227 (12 AWG, 2–CONDUCTOR, STRANDED TINNED COPPER, EXTERIOR/UV/WET–RATED, DIRECT–BURIAL TYPE) OR APPROVED EQUAL AS A HOME RUN TO THE C45 LOUDSPEAKER–NO LOOP–THRU. TERMINATE AT AMPLIFIER OUTPUT AND LOUDSPEAKER NL4 CONNECTOR USING PINS 1+ / 1– ONLY (PINS 2+ / 2– NOT USED). OBSERVE POLARITY END–TO–END. NO SPLICES IN CONCEALED RUNS. TORQUE ALL TERMINALS PER MANUFACTURER SPEC. PROVIDE STRAIN RELIEF AND SERVICE LOOPS AT RACK AND SPEAKER LOCATIONS; APPLY DIELECTRIC GREASE AND WEATHER BOOTS AT EXTERIOR CONNECTORS. MAINTAIN SEPARATION FROM AC POWER/PDUS AND DATA CABLES. LABEL BOTH ENDS (E.G., "CH–3 TO C45–CENTER"). VERIFY CONTINUITY, POLARITY, AND FINAL LOAD WITHIN AMPLIFIER SPECIFICATION; SET CHANNEL LIMITER FOR APPROXIMATELY 700 W RMS PER LOUDSPEAKER PER MANUFACTURER RECOMMENDATION.

MP DESIGN GROUP
MACHADO · PATANO · KILPATRICK · JONES
918 Howard Ave Suite F
Biloxi, Mississippi 39530
P: 228.388.1950
www.mpdesigngroup.us

BRADLEY P. PATANO — REGISTERED PROFESSIONAL ENGINEER — 12/8/25 — E411 — STATE OF MISSISSIPPI

SOFTBALL UPGRADES
VICKSBURG WARREN SCHOOL DISTRICT

3701 Drummond St, Vicksburg, MS 39180
1000 MS-27, Vicksburg, MS 39180

SCALE: AS SHOWN
PROJECT NO: 0323.25.002
DRAWN BY: KDB
CHECKED BY: KDB

STADIUM SOUND SYSTEM RISER DIAGRAM
VHS AND WCHS SOFTBALL

NO.	DATE	REVISION / SUBMITTAL
REV 0	10.31.25	ISSUED FOR CONSTRUCTION
REV 1	12.08.25	ADDENDUM 03

E611

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

PRINTED: 12/8/2025 3:50 PM BY: Kenneth Beverin LAST SAVED: 12/8/2025 3:18 PM BY: Kbeverin
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SECTION 265668
OUTDOOR SPORTS FIELD LIGHTING

PART 1 – GENERAL

1.01 SUMMARY

A. Work covered by this section of the specifications shall conform to contract documents, engineering plans as well as state and local codes.
   1. The purpose of these specifications is to define the lighting system performance and design standards for Vicksburg and Warren Central High School softball fields using an LED lighting source. The proposal shall include LED luminaires, brackets, mounting hardware, shop drawings, removal of existing sports lighting, full installation of new components, all electrical connections, aiming and control system integration prior to the date specified herein. The manufacturer / contractor shall supply the lighting system to meet or exceed the standards set forth in these specifications.

B. The sports lighting system(s) will be for the following venue(s):
   1. (2) Softball Fields

C. The primary goals of this lighting project are:
   1. Balance of lighting factors: Minimize spill light to adjoining properties and glare to the players, spectators, and neighbors. Maximize playability and safety to the players.
   2. Life-cycle Cost: To reduce operating costs, the preferred lighting system shall be energy efficient and cost effective to operate. System energy consumption is to be maintained over the life of the system and will not increase as the system ages.
   3. Control and Monitoring: To reduce system and labor costs and allow for optimal operational flexibility of the lighting system, the customer requires a wireless control system. The system shall be capable of on/off/dimming on a per fixture basis to reduce energy consumption and allow scenes to be created and implemented. The system shall be accessible via Wi-Fi, cellular and/or LAN connectivity and permit multiple users on site/remote control. 10 years of communication costs shall be provided.
   4. Entertainment Capability: The system shall provide lighting entertainment scenes that are pre-programmed including “Paparazzi”, “”Sparkle”, “Random” and others as provided by the manufacturer or requested by the customer.

1.02 LIGHTING PERFORMANCE

A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below. Lighting calculations shall be developed, and field measurements taken on the grid spacing with the minimum number of grid points specified herein.

B. Average illumination level shall be measured in accordance with the latest IESNA Sports and Recreational Area Lighting requirements.

C. Illumination levels to meet target values in accordance with latest IESNA Sports and Recreational Area Lighting.

Area of Lighting	Average Target Illumination Levels	Maximum to Minimum Uniformity Ratio	Grid Spacing
Softball Infields	50fc	1.7:1	15’ x 15’
Softball Outfields	30fc	2.5:1	15’ x 15’
Bullpens	30fc	3:1	15’ x 15’

D. Mounting Heights and Locations: When retrofitting existing poles shall be reused. Mounting heights are described as follows:

# OF POLE	**POLE DESIGNATION**	**POLE HEIGHT**
SOFTBALL FIELDS	**ALL POLES**	**70’**

1.01 ENVIRONMENTAL LIGHT CONTROL

A. Light Control for Luminaires: All luminaires shall utilize multi-layer optical system designed to minimize field-to-field and off-site glare and spill light while maintaining the poles for aerial play.

B. Spill Control: To minimize impact on adjacent properties no fixture mounted anywhere on the poles shall be aimed above the horizon.

C. Photometric Report: A photometric report that shows aiming points of each luminaire shall be provided to demonstrate the capability of achieving the specified performance.

PART 2 – SPORTS LIGHTING SYSTEM DESIGN AND CONSTRUCTION

2.01 ACCEPTABLE MANUFACTURERS

A. All components shall be designed and manufactured as a system. Luminaires, controls, and integral driver system shall be provided from the approved manufacturer below. All substitutions must provide a complete submittal package for approval 10 days prior to bid. Any manufacturer considered for substitution must have a minimum of 10 years' experience in LED sports lighting.
   1. Ephesus Sports Lighting with AirMesh Wireless Control

B. All manufacturers seeking approval as a substitute must adhere to the following:
   1. Manufacture products in their own facilities located in North America
   2. No source-and-sell or white label manufacturers will be accepted
   3. Below specifications must be met

2.02 POLE STRUCTURE SYSTEM

A. General description: The entire sports lighting system (poles, crossarms, wiring and fixtures) must be supplied by a single entity. The complete lighting system shall consist of the listed equipment as follows:
   1. Design must adhere to AASHTO LTS-6
   2. Anchor based or Concrete encased, hot-dip galvanized steel poles.
   3. Crossarms: tubular style factory pre-wired and assembled, no external wiring, side mounted plate-to-plate crossarm to pole connection, hot-dip galvanized steel. No top-mount attachment permitted
   4. Grounding lug nut integral to pole system
   5. Provide drop cables from crossarms to distribution box 10 feet above grade with plug and play connection
   6. Pole shaft must adhere to ASTM A-572 GR65 and shaft form factor must be round, no multi-sided shafts permitted
   7. Wind speed rating must adhere to ASCE 7-05 geographical standards

2.03 FOUNDATIONS

A. The pole foundations shall be designed for allowable stresses in accordance with 2013 AASHTO standards. Foundation must be designed and stamped by Structural Engineer in the state of Mississippi. Installation and structure shall be based on wind speed criteria of these specifications.

B. Concrete material for concrete foundations – all concrete shall have minimum compressive strength of 3000 psi at 28 days. Concrete shall have maximum water/cement ratio of 0.5. Foundation installation shall be in accordance with the latest edition of ACI 336, Standard Specifications for the Construction of Drilled Piers.

C. Foundation strength – any concrete portions of the pole in which steel components that provide tension strength are contained, shall be allowed to harden for a minimum of 28 days before stress loads of pole attachment are applied.

D. Provide steel caissons where required to hold back collapse of augured hole and concrete backfill as recommended by the foundation design engineer.

E. Include excavation and removal of materials other than normal soils such as rock, calcite, etc.

2.04 POLE STRUCTURE

A. The poles shall be designed for allowable stresses in accordance with AASHTO-LTS-6 Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals.

B. The pole structure shall consist of a modular pole assembly.

C. Embedment shaft section shall be a single piece round tapered shaft section. The taper rate and material cross section properties shall match the adjoining section. The lower shaft section shall be embedded into the earth a minimum distance of 10% of the free-standing height of the structure plus 2' or as recommended by engineer. The shaft section shall be galvanized in accordance with ASTM A123

specifications. The entire embedded shaft portion shall also be externally coated with Corrocote II epoxy coating or coal tar epoxy up to 6” above the ground line. Concrete stub pole sections are not acceptable due to excessive weight and structural design.

D. Each section of pole shaft material shall be of single-ply material and be made from a single sheet of steel with no circumferential welded splices. The pole shafts cross-section shall be round. The pole shaft sections shall be high-strength steel meeting the requirements of ASTM A572 GR65 (65 ksi yield)

E. Pole shaft sections shall be hot dip galvanized in accordance with the requirements of ASTM A123 specifications. Each shaft assembly must be completely coated, inside and out, in a single dip. Double dipping will not be permitted in compliance to USGA (United States Galvanizing Association) recommended practices and procedures to prevent acid entrapment. All miscellaneous connecting hardware shall be galvanized in accordance with ASTM A153 specifications.

F. Concrete Encased Pole coating: Mastic coating applied to base of all concrete encased poles at manufacturer

G. The structure shall be designed for the combined effective projected area (EPA) and weight of all applicable accessories (i.e. luminaires, crossarms, remote cabinets and other components such as speakers/mounting brackets). Concrete poles or pole sections are not acceptable due to excessive weight and mobilization costs.

H. Wind loads – structure shall be based on the latest specifications of ASCE 7-05 and designed to withstand local wind speeds.

2.05 CROSSARM ASSEMBLY

A. All crossarms shall be factory pre-wired and assembled.

B. All crossarms shall be hot dip galvanized in accordance with the requirements of ASTM A123 specifications

C. All wiring/connections should be factory assembled from the fixture mounting location to the base of the pole.

D. Strain relief device(s) must be factory installed in pre-wired crossarm assembly to ensure no weight or tension is placed on electrical connections.

E. All factory pre-wiring must be done in a manner that requires no electrical connections inside the pole or crossarm assembly to be made in the field.

2.06 SPORTS LIGHTING SYSTEM

A. The lighting system shall meet the following specifications:

B. Light Head:
1. UL Certified for wet locations
2. IP66 rated (total protection from dust and high pressure water in any direction)
3. Operating temperature range rating between -40°C and +40°C
4. Certified to ANSI C136.31, 3G vibration rated
5. Efficacy of ≥130 lumens/watt
6. Correlated Color Temperature (CCT) of 5700K
7. CRI of ≥ 70
8. L90 lumen depreciation rating: >55,000 hours certified by LM80 testing
9. Light Head weight ≤ 45lbs, including mounting bracket and hardware
10. Light Head effective projected area (EPA) ≤ 1.8 ft2
11. Pre-aiming for orientation and tilt
12. Luminaires must be listed on the QPL of Design Lights Consortium® to ensure minimum quality and energy-efficiency standards are met for qualification in energy efficiency programs.
13. Aluminum shall be chromate conversion coated and then two-stage architectural grade powder-coated for long term resistance to corrosion and UV exposure.
14. Luminaires must be designed and tested for reliability in the USA
15. Luminaire shall incorporate silicone TIR optics to eliminate optical degradation.
16. Multilayer optical system combining TIR optics with reflector optics to minimize glare perception.

17. Fixture shall have a sealed glass cover to protect the optics and LEDs from water ingress and optical degradation. No exposed TIR optics permitted.
18. LED light source shall be Chip-on-Board (COB) technology for proven reliability compared to discrete LEDs with solder joints prone to high failures.

C. Remote Power Enclosures:
1. Drivers, controls and all wiring connections shall be contained in IP66 enclosures. No exposed connections permitted.
2. Wide input range of 120VAC to 277VAC or 277VAC to 480VAC
3. Power factor: >0.96 @ 277VAC and >0.95 @480VAC
4. THD (Total Harmonic Distortion) ≤20%
5. Three level system surge protection: 40kV system front end, additional 10kV per power enclosure and additional 10kV per driver.
6. Drivers shall be mounted inside a cast aluminum enclosure which conducts heat away from the driver to ambient air and maintains a driver case temperature within the driver manufacturer's warranty limitations at 40°C ambient in order to preserve long term reliability.
7. No active cooling permitted
8. No open frame drivers permitted
9. No sheet metal cabinets permitted
10. No integral power solutions are permitted
11. All controls components housed in remote enclosures. No exposed antennas to protect from damage.

D. Controls
1. Wireless control using 802.15.4 mesh network protocol
2. 10 years of cellular data communication costs to be included
3. System alerts to indicate loss of communication with any fixture
4. Dimming 100% to 10%
5. Dim to off
6. Individual light control to reduce energy consumption and create custom light scense
7. Schedule/control system via Wi-Fi, LAN and/or cellular connectivity for remote operation
8. Store up to 25 pre-programmed scenes assigned to push button controller for manual on-premise operation
9. Capable of dynamic entertainment light scenes (ie. lights flashing, paparazzi, etc.)
10. ISO and Android compatible wireless control for multiple users
11. Allow multiple user accounts with ability to assign various system permission levels
12. Ability to schedule recurring events at fixed time
13. Capable of firmware/software upgrades
14. Onsite and/or remote commissioning
15. Control button station enclosure o be NEMA 4X molded figerglass reinforces polyester with internal gasket and stainless steel, quick release latches with ability to padlock for security purposes.
16. Controller shall be protected against memory loss during power outages. If power failure to the controller occurs during use, lights shall default to 100% on. One power is restored the controller shall resume normal event control.

2.07 SAFETY

A. All system components shall be UL listed for the appropriate application.

2.08 ELECTRICAL

A. The electrical power requirements for the sports lighting system shall meet the following specifications:
1. Electrical Service: 347 to 480V or 120 to 240V
2. Energy Consumption: System energy consumption will not increase as the system ages.
a. FIELD QUALITY CONTROL

B. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination

measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with the latest IESNA Sports and Recreational Area Lighting standards.

C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed representative, the actual performance levels of the system are not in conformance with the requirements of the specifications and submitted information, the Contractor/Manufacturer shall be required to make adjustments to meet specifications and satisfy Owner.
   a. WARRANTY AND GUARANTEE
      1) 10-Year Warranty: Manufacturer shall supply a signed product warranty covering the entire system for 10 years. Any parts, except fuses, found to be defective shall be provided during the entire warranty period. The system's energy consumption is to be maintained for entire warranty period and will not increase as the system ages.
      2) Manufacturer shall maintain specifically funded financial reserves to assure fulfillment of the warranty for the full term. Warranty does not cover damage due to weather conditions, acts of God, accidents, misuse, misapplication, abuse, negligence, failure of owner's electrical service or unauthorized modification of any part of the product.

PART 4 – DESIGN APPROVAL

3.01 SUBMITTAL REQUIREMENTS

A. Sports lighting system shop drawings shall include:

Item	Description
On Field Lighting Design	Lighting design drawing(s) showing: a. Field Name, date, file number, prepared by b. Outline of field(s) being lighted, illuminance levels at grid spacing specified c. Pole height, number of fixtures per pole, horizontal and vertical aiming angles, as well as luminaire information including wattage, lumens and optics. d. Height of light test meter above field surface. e. Summary table showing the number and spacing of grid points; average, minimum and maximum illuminance levels in foot candles (fc); uniformity including maximum to minimum ratio, coefficient of variance (CV), uniformity gradient (UG); number of luminaries, total system kilowatts; light loss factor.
Photometric Report	A photometric report that shows aiming points to demonstrate the capability of the system to achieve the specified performance.
Photometric Files	IES files for each NEMA configuration specified in the sports lighting design.
Control & Monitoring System	Written definition and schematics for wireless control system.
Standard Catalog 'Cut' Sheets	Luminaire specification or 'cut' sheets.

Qualifications & Experience	Provide a list of 10 similar projects installed with LED sports lighting. Include project name, location, installation date and reference contact.

END OF SECTION